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# APPENDIX A

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**COMPREHENSIVE MOTOR VEHICLE SERVICES AND  
CONSULTING  
MOTOR VEHICLE FORENSIC ANALYSIS  
REPORT**

**CMVSC-18-IA-245**

***-- In the Matter of the Death of Edson Thevenin --***

**LOCATION OF EVENT:** Alternate Route 7, Troy, New York

**TYPE OF EVENT:** Three Vehicle, with One Causal Dynamic Motor Vehicle

**INVOLVED DYNAMIC SUBJECT VEHICLE:** 2000 Honda Civic EX Two Door Coupe

**SUBJECT VEHICLE OPERATOR:** Edson Thevenin

**DATE OF EVENT:** April 17, 2016 @ 0330 hrs.

**REFERENCE NO.:** Troy (New York) Police Department BC38338

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CMVSC-18-IA-245

**IN THE MATTER OF THE DEATH OF EDSON A. THEVENIN**

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Brian F. Chase, Senior Investigator

### **VEHICLE AUTOPSY FORENSIC INVESTIGATION SUMMARY**

**Case No: CMVSC-18-IA-245**

#### ***In the Matter of the Death of Edson Thevenin***

***Case Reference No. BC 38338, Troy (N.Y.) Police Dept.***

At the request of officials of the Troy, New York Police Department, specific additional motor vehicle forensic investigative and crash reconstruction procedures were initiated relative to the operation of a passenger vehicle which resulted in a multiple vehicle impact, culminating with the police officer involved shooting of the driver thereof, in the city of Troy, New York on Sunday, April 17, 2016 at approximately 3:30 AM. The focus of the supplementary investigation included the post-crash forensic vehicle analyses of the causally involved, dynamic 2000 Honda Civic EX two door coupe bearing New York registration FYZ9818, as well as crash damage analyses and Crash Data Retrieval Report review with respect to the additional two static motor vehicles involved in the event. The actual vehicle autopsy forensic procedures and associated component analyses were conducted on April 18th and April 19th, 2018, at the Troy Police Department Garage facility located at 1652 5th Avenue in Troy, New York. Photography at the vehicle autopsy location was performed by utilizing a Canon EOS 6D digital camera with standard and macro lens attachments; Digital Bore Scope; and Digital Microscope.



**Opinions expressed by this report include incorporation of review and assessment of related investigative and reconstruction material of assigned investigators of the Troy, New York Police Department as well as others retained prior to this vehicle forensics analyses. Moreover, specific applicable information obtained through comprehensive research of Honda vehicle manufacturer specifications, campaigns, and technical design data are also incorporated as a basis for opinion herein.**

**BACKGROUND/OVERVIEW OF THE CASE**

On Sunday, April 17, 2016, at approximately 0310 hours, Troy (New York) Police Sergeant Randall French initiated the traffic stop of a 2000 Honda Civic EX two door coupe operated by Edson Thevenin (DOB 06/30/1978) "on suspicion of (operator Thevenin) *driving while intoxicated.*"<sup>1</sup> The traffic stop, which occurred on 6th Avenue between Jacob Street and Hoosick Street, resulted in Edson Thevenin reentering the driver seat of the 2000 Honda Civic and fleeing the traffic stop location after failing field sobriety testing conducted by Sergeant French. Sergeant French then engaged in a pursuit of the fleeing 2000 Honda Civic operated by Edson Thevenin, and was soon joined by a second police vehicle operated by Troy (New York) Police Captain Matthew Montanino. The pursuit of the 2000 Honda Civic operated by Edson Thevenin terminated after a distance of approximately .2 miles due to left frontal impact with the concrete highway divider of westbound Alternate Route 7 near the entrance to the Collar City Bridge.

Subsequent to left frontal impact with the concrete dividing barrier, Edson Thevenin placed the transmission selector of the 2000 Honda Civic in Reverse and initiated acceleration, backing the vehicle on the paved roadway and resulting in impact with the frontal area of the police vehicle operated by Captain Montanino, which was stopped in a westerly direction within the left lane of westerly vehicular travel of Alternate Route 7 to the rear of the 2000 Honda Civic. Operator Edson Thevenin next placed the transmission selector of the 2000 Honda Civic in a forward gear, accelerating the vehicle in a westerly direction on Alternate Route 7 in the direction of Sergeant French, who was now standing along the left (driver) side of his marked police cruiser which was parked in an angled position on Alternate Route 7

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<sup>1</sup> See Report on the Investigation into The Death of Edson Thevenin, New York State Office of the Attorney General, page 4.



slightly westerly of the concrete barrier impact location. The 2000 Honda Civic operated by Edson Thevenin ultimately came to a final rest near the left rear of the marked cruiser of Sergeant French.

Prevailing road surface conditions of Alternate Route 7 in the vicinity of the event were that of dry asphalt surface, clear from apparent debris/material.

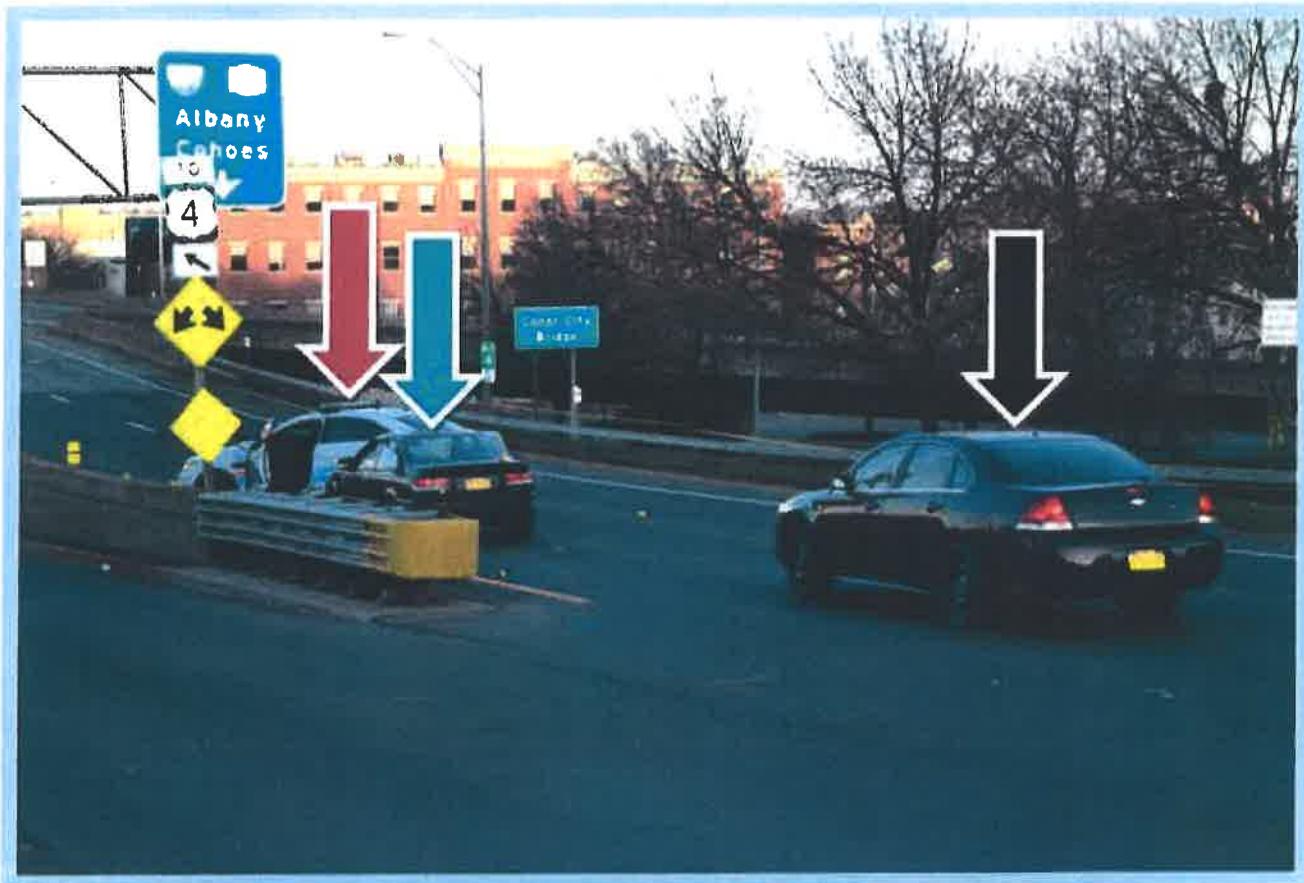


Image No. 1 This photograph, courtesy of the Troy (New York) Police Department, depicts the scene of final rest of the three involved vehicles with respect to the events of April 17, 2016. The Red Arrow denotes the 2013 Ford Taurus police cruiser operated by Troy Police Sergeant Randall French. The Blue Arrow denotes the 2000 Honda Civic operated by Edson Thevenin. The Black Arrow denotes the 2012 Chevrolet Impala police vehicle operated by Troy Police Captain Matthew Montanino, which had been moved rearward from its actual final rest location.



**TRAVEL ROUTE, PRE-CRASH TRAJECTORY, AND SCENE LOCUS**

The traffic stop of the 2000 Honda Civic operated by Edson Thevenin was initiated by Troy Police Sergeant Randall French on 6th Avenue between Jacob Street and Hoosick Street in the city of Troy, New York, on Sunday, April 17, 2016 at approximately 0310 hours. Fleeing the scene of the traffic stop after allegedly failing Field Sobriety Testing, Edson Thevenin operated the 2000 Honda Civic in a northerly direction on 6th Avenue; then negotiating a sharp right turn onto Hoosick Street and traveling in an easterly direction; then negotiating a left u-turn onto Alternate Route 7 (Collar City Bridge) westbound. During this course of vehicular travel, Troy Police Sergeant Randall French had engaged in pursuit while operating a 2013 Ford Taurus Police Interceptor Sedan, fully marked as a Troy Police vehicle.

After completing the left u-turn from Hoosick Street onto Alternate Route 7 (Collar City Bridge), the 2000 Honda Civic operated by Edson Thevenin impacted the left side roadway concrete barrier which separates the two westbound lanes of Alternate Route 7 (Collar City Bridge) from the westbound and eastbound lane of Hoosick Street, located adjacent to the south side of Alternate Route 7. A dividing aluminum guardrail system is installed at the eastern extremity of the referenced dividing concrete barrier.

Alternate Route 7 (Collar City Bridge) in the area of the concrete barrier impact by the 2000 Honda Civic operated by Edson Thevenin is comprised of a paved roadway consisting of two vehicular travel lanes for westbound traffic. A white fog line and aluminum guardrail system is installed on the northern highway periphery, while a yellow fog line and aforementioned aluminum guardrail/concrete barrier prevails on the southern highway periphery.

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**Image No. 2** This aerial photograph, courtesy of Google Maps, depicts the approximate trajectory of the 2000 Honda Civic operated by Edson Thevenin while fleeing a traffic stop near the intersection of 6th Avenue and Jacob Street. Being pursued by a marked Troy Police vehicle operated by Troy Police Sergeant Randall French, the 2000 Honda Civic operated by Edson Thevenin negotiated a sharp right turn onto Hoosick Street, and then a left turn onto Alternate Route 7 (Collar City Bridge) before impacting a concrete roadway barrier located on the southern side of Alternate Route 7. (NOTE: Designated vehicle arrow locations and a turn location are for reference purposes only and are not to scale.)



**VEHICLE IMPACT EVENTS -- ALTERNATE ROUTE 7 (COLLAR CITY BRIDGE)**

Fleeing from the traffic stop initiated by Troy Police Sergeant Randall French on 6th Avenue north of Jacob Street<sup>2</sup>, the 2000 Honda Civic operated by Edson Thevenin ultimately negotiated a sharp right turn onto Hoosick Street easterly. Shortly thereafter, the 2000 Honda Civic operated by Edson Thevenin negotiated a left u-turn from Hoosick Street onto Alternate Route 7 (Collar City Bridge).

Traveling in a westerly direction in the westbound lanes of Alternate Route 7, the 2000 Honda Civic operated by Edson Thevenin violently impacted the roadway median concrete barrier at a location approximately 35 feet west of the onset of the guardrail system located at the eastern end of the concrete center barrier.

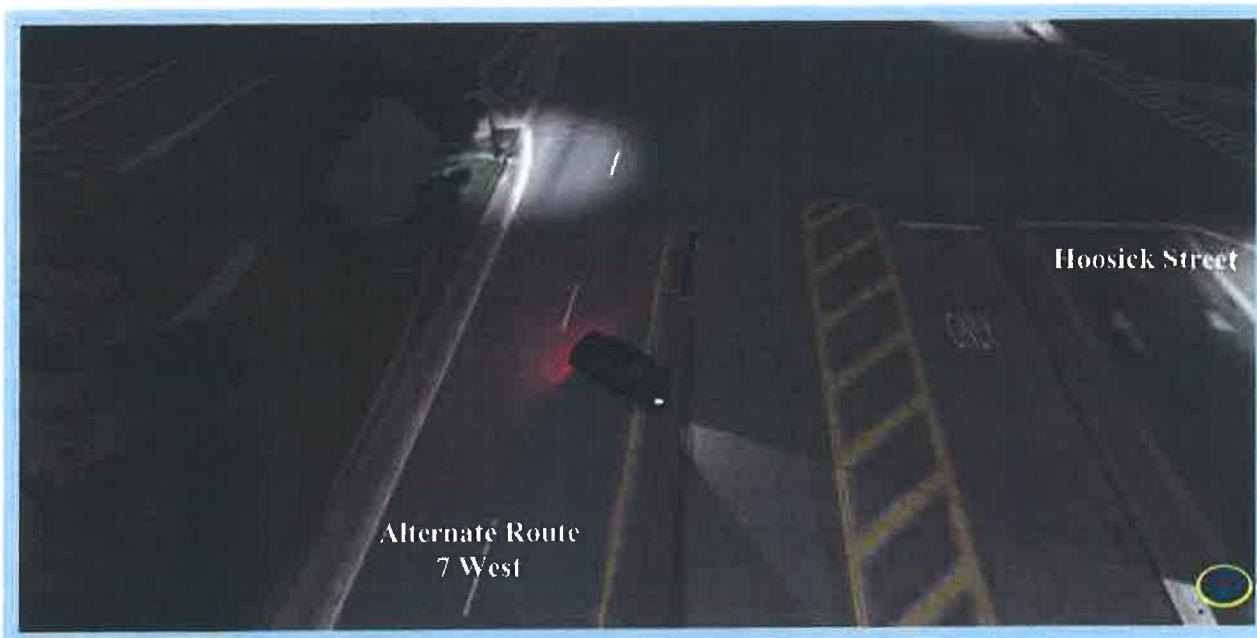


**Image No. 3** This aerial photograph, courtesy of Google Maps, depicts the approximate trajectory of the 2000 Honda Civic operated by Edson Thevenin while in an easterly direction on Hoosick Street (Red Arrows) after fleeing a traffic stop near the intersection of 6th Avenue and Jacob Street. Traveling beyond the concrete barriers and guardrail system at the eastern end of Alternate Route 7, the 2000 Honda Civic operated by Edson Thevenin negotiated a left u-turn and proceeded westerly onto Alternate Route 7 (Collar City Bridge) before impacting a concrete roadway barrier located on the southern side of Alternate Route 7.

<sup>2</sup> See Narrative Statement of Sergeant Randall French, Troy (N.Y.) Police Department, 04/22/2016.



The impact of the westbound 2000 Honda Civic into the concrete median barrier system occurred at an approximate angle of 118 degrees, as determined by and through digital tram assessment of the sustained contact and structural damage at the left front section of the Honda Civic.<sup>3</sup>



**Image No. 4.** This 3D Forensic Animation Still Image depicts the approximate initial concrete barrier impact location of the 2000 Honda Civic, operated by Edson Thevenin while in a westerly direction on Alternate Route 7 (Collar City Bridge) after negotiating a u-turn from Hoosick Street. This computer generated image was created by utilizing forensic scene mapping data, scene photographs, involved vehicle photographs, and forensic damage analyses of the involved 2000 Honda Civic.

This 3D Forensic Animation Still Image represents only that of the involved 2000 Honda Civic at initial concrete barrier impact. Troy Police Department vehicles are not depicted.

<sup>3</sup> Comprehensive damage analyses will be discussed within a subsequent section of this report.



Due to the intensity of the impact of the 2000 Honda Civic operated by Edson Thevenin with the concrete barrier, as well as the approximate 118 degree angle of impact, the left frontal area of the vehicle was propelled into a forced westerly concrete barrier slide of approximately fifty-one (51) inches. This clockwise rotation of the 2000 Honda was substantiated by 1) concrete barrier evidence; 2) roadway right front Honda tire scuff mark; and 3) Honda physical crash evidence. (Also see Image No. 46, Page 61.)



**Image No. 5.** This 3D Forensic Animation Still Image depicts the approximate final concrete barrier impact location of the 2000 Honda Civic operated by Edson Thevenin subsequent to clockwise rotation of the vehicle due to the severity of the impact and angle of approach while in a westerly direction on Alternate Route 7 (Collar City Bridge) after negotiating a u-turn from Hoosick Street. This computer generated image was created by utilizing forensic scene mapping data, scene photographs, involved vehicle photographs, and forensic damage analysis of the involved 2000 Honda Civic.

This 3D Forensic Animation Still Image also represents the location of the 2013 Ford Taurus marked Troy Police Department cruiser, based upon forensic scene mapping data. Additionally, the 3D Forensic Still Image represents the initial at-scene location of the 2012 Chevrolet Impala unmarked Troy Police Department vehicle, based upon forensic scene mapping and roadway physical evidence.



Subsequent to the severe concrete barrier impact and resulting clockwise rotation of the 2000 Honda Civic, and with the two Troy Police Department vehicles on scene as depicted by Image No. 5 (above), Honda operator Edson Thevenin purposefully placed the automatic transmission shifter of the vehicle in the REVERSE position and accelerated rearward, ultimately striking the Troy Police Department 2012 Chevrolet Impala operated by Troy Police Captain Matthew Montanino. Analysis of the physical damage of the two motor vehicles reveals that impact occurred between the right rear bumper cover of the 2000 Honda Civic and the left center bumper cover of the 2012 Chevrolet Impala.

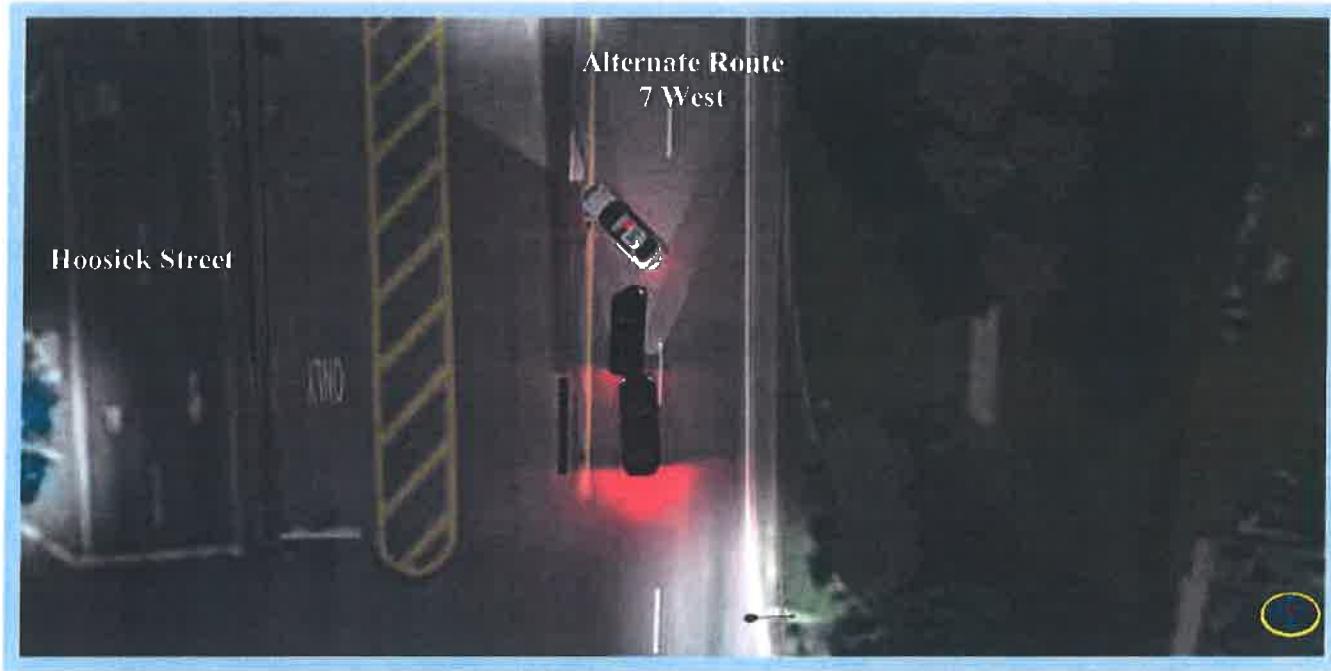
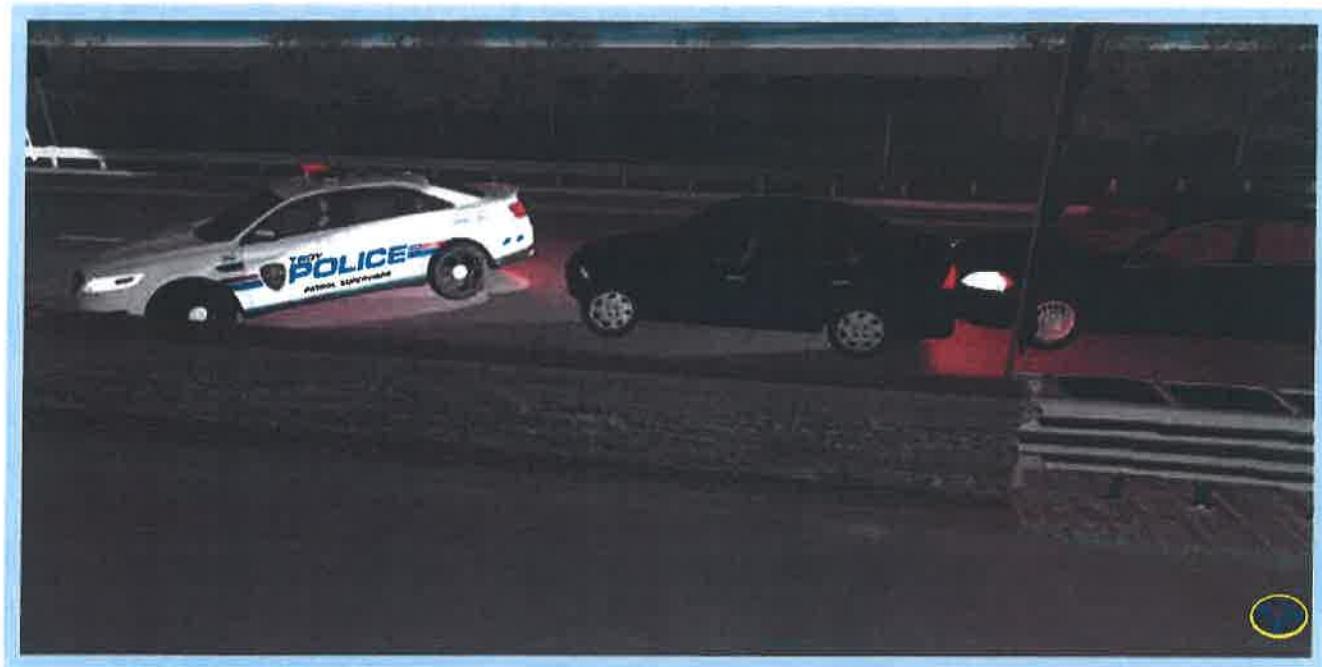


Image No. 6a: This 3D Forensic Animation Still Image depicts the approximate location of the 2000 Honda Civic operated by Edson Thevenin at impact with the Troy Police Department 2012 Chevrolet Impala after backing from concrete barrier final impact location on Alternate Route 7 (Colon City Bridge). This computer generated image was created by utilizing forensic scene mapping data, scene photographs, involved vehicle photographs, and forensic damage analyses of the involved 2000 Honda Civic and 2012 Chevrolet Impala.

Of note is the distance of approximately thirty-nine (39) inches between the right front bumper of the 2000 Honda Civic and the left rear wheel area of the marked Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French.



**Image No. 6b:** This 3D Forensic Animation Still Image depicts the Hoosick Street view of the approximate location of the 2000 Honda Civic operated by Edson Thevenin at impact with the Troy Police Department 2012 Chevrolet Impala after breaking from concrete barrier final impact location on Alternate Route 7 (Collar City Bridge). This computer generated image was created by utilizing forensic scene mapping data, scene photographs, involved vehicle photographs, and forensic damage analyses of the involved 2000 Honda Civic and 2012 Chevrolet Impala.

Of note is the distance of approximately thirty-nine (39) inches between the right front bumper of the 2000 Honda Civic and the left rear wheel area of the marked Troy Police Department 2012 Ford Taurus operated by Troy Police Sergeant Randall French.

Following impact between the right rear bumper cover of the 2000 Honda Civic and the front bumper cover of the Troy Police Department 2012 Chevrolet Impala from the purposeful rearward trajectory of the Honda as the result of the operator/vehicle interface of Edson Thevenin, the shifter of the 2000 Honda Civic was then purposefully placed in the DRIVE position from the previous REVERSE position. The 2000 Honda Civic operated by Edson Thevenin was then accelerated in a forward trajectory the distance of



approximately thirty-nine (39) inches to impact with Troy Police Sergeant Randall French, who had exited the driver seat and was positioned in the proximity of the left rear quarter panel of the marked Troy Police Department 2013 Ford Taurus.



**Image No. 7a** This 3D Forensic Animation Still Image depicts the approximate location of the 2000 Honda Civic operated by Edson Thevenon at impact with Troy Police Sergeant Randall French at the left rear quarter panel area of the Troy Police Department 2013 Ford Taurus after having been accelerated a distance of approximately 39 inches in a forward trajectory from the area of previous impact with the Troy Police Department 2012 Chevrolet Impala. This image is that of facing westerly on Alternate Route 7 (Collar City Bridge). This computer generated image was created by utilizing forensic scene mapping data, scene photographs, involved vehicle photographs, and forensic damage analyses of the involved 2000 Honda Civic.



**Image No. 7b** This 3D Forensic Animation Still Image depicts the approximate location of the 2006 Honda Civic operated by Edson Thevenin at impact with Troy Police Sergeant Randall French at the left rear quarter panel area of the Troy Police Department 2013 Ford Taurus after having been accelerated a distance of approximately 39 inches in a forward trajectory from the area of previous impact with the Troy Police Department 2012 Chevrolet Impala. This image is that of viewing the scene in a southerly direction.



**INVOLVED VEHICLE DATA AND ANALYSES -- VEHICLE NO. 1**

A primary focus of the vehicle autopsy and related forensic analyses in this case was the involved 2000 Honda Civic operated by Edson Thevenin, which at the time of the described events was bearing New York registration FYZ9818. The vehicle is of the EX, two door coupe, front wheel drive, passenger vehicle<sup>4</sup> designation, and at the time of manufacturer was assigned a vehicle identification number of

**1HGEJ8248YL105513**



**Image No. 8.** This photograph depicts the FMVSS requisite Mylar identification labels of the left door jamb of the 2000 Honda Civic operated by Edson Thevenin

The 2000 Honda Civic EX in this case was manufactured with the 1.6 Liter, 1595 cc, four cylinder, VTEC, MFI, naturally aspirated gasoline engine developing 123-127 horsepower. Power from the engine is transmitted through a four speed automatic transmission/transaxle assembly to the drive components of the front wheel drive vehicle. Transmission gear selection is controlled and regulated by the manual input of the vehicle operator by and through the center console mounted shift lever.

According to manufacturer Honda Motor Company database records as well as National Highway Traffic Safety Administration records as the result of a national warranty database search most recently dated August 1, 2018, there are no open/outstanding Safety Recalls pertaining to the specific vehicle in this case.

<sup>4</sup> See 49CFR571.3.



### **VEHICLE FORENSICS INVESTIGATIVE RESULTS**

In addition to facts noted elsewhere within this investigative report, the vehicle autopsy and forensic analyses of the 2000 Honda Civic EX two door coupe on April 18 and April 19, 2018 at the Troy (New York) Police Department Garage facility in Troy, New York revealed conclusive evidence inclusive of the following:

➤ ***Tires and Wheels***

**The analysis of the tires of the involved 2000 Honda Civic EX revealed that all four tires and wheels were of the same manufacturer, design and size. Operational vehicle dynamics of the 2000 Honda Civic due to loss of tire air pressure, tread depth readings, Durometer readings, or abnormal wear patterns were a nonissue.**

**The forensic analysis of the left front tire of the 2000 Honda Civic revealed impact characteristics relevant to the known impact of the vehicle with the concrete barrier of Alternate Route 7 (Collar City Bridge). This topic will be discussed in greater detail within the Damage Analysis section of this expert report.**



**Image No. 9.** This photograph of the right front tire of the 2000 Honda Civic operated by Edson Theyenka depicts an example of the condition of the tires of the vehicle. The vehicle autopsy revealed no tire conditions which would have adversely affected the operational characteristics of the 2000 Honda Civic.



➤ **Braking System**

The 2000 Honda Civic in this case is equipped with a hydraulic brake system comprised of front disc brake components and rear drum brake components. The system is that of an antilock brake system (ABS), which is monitored and controlled by the Antilock Brake System Control Unit, monitoring tire slip rates reported by wheel speed sensors located at the four wheel locations while braking, and accordingly precisely controlling the slip rate of the wheels by and through brake fluid pressure modulation provided by the ABS Modulator. This response, in milliseconds, ensures maximum tire grip force on the roadway surface which assists in ensuring vehicle maneuverability and stability. As with all motor vehicle ABS systems, the system incorporates a failsafe design which reverts to normal (non-ABS) vehicle braking in the event of a malfunction.

The hydraulic braking system of the 2000 Honda Civic is specifically designed with front disc brake components inclusive of single floating, single piston disc brake calipers with inner and outer disc brake pads, while the rear braking system is designed with primary and secondary brake shoes, park brake hardware, self adjusting hardware, and brake drums. The braking system of the vehicle includes a vacuum booster for power assist braking.

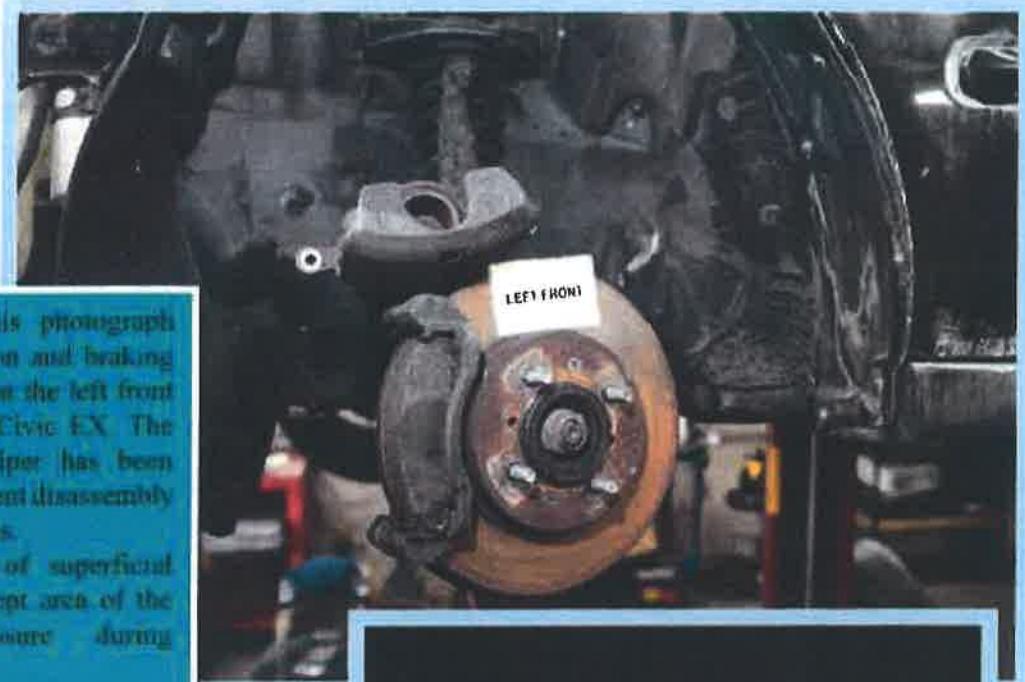
The disassembly and analysis of the individual wheel location components revealed a fully adequate, hydraulic braking system in pre-crash operational condition, with all components intact and with no deficiencies.



Specific notations of the braking system components at the four wheel locations of the involved 2000 Honda Civic EX are as follows:

**Front Disc Brake Pad Friction Material and Disc Brake Rotor Analysis**

- ◆ All components installed correctly and intact.
- ◆ Superficial oxidation present at rotor swept areas due to exposure to elements during vehicle impoundment.
- ◆ No brake fluid seepage evident at brake calipers.
- ◆ Brake caliper pistons compressed freely in bore without binding during testing; caliper slides exhibited free caliper body movement.
- ◆ Illuminated magnification of disc brake pad friction material revealed normal evidence of friction wear from rotor swept area interface.
- ◆ Friction material thickness adequate for proper brake application and coefficient of friction.
- ◆ Disc Brake Rotor thickness adequate.
- ◆ Brake dust accumulation minimal/undetectable, consistent with no high speed continuous brake application during pre-crash sequence vehicle operation.



**Image No. 10** This photograph depicts the suspension and braking components located at the left front of the 2000 Honda Civic EX. The left front brake caliper has been removed for component disassembly and testing procedures.

Note the presence of superficial oxidation on the swept area of the rotor from exposure during impoundment.



**Image No. 11** This photograph depicts the suspension and braking components located at the right front of the 2000 Honda Civic. Note the minimal brake dust accumulation, consistent with no high speed continuous braking during vehicle crash sequence operation.

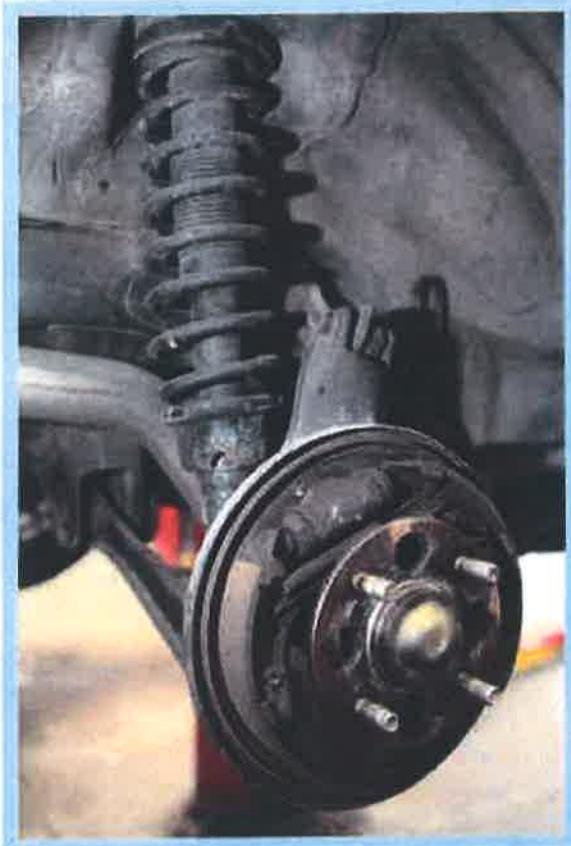


Image No. 12 This photograph depicts the suspension and braking components located at the right rear of the 2000 Honda Civic. Note the intact components, with no wheel cylinder brake fluid leakage.

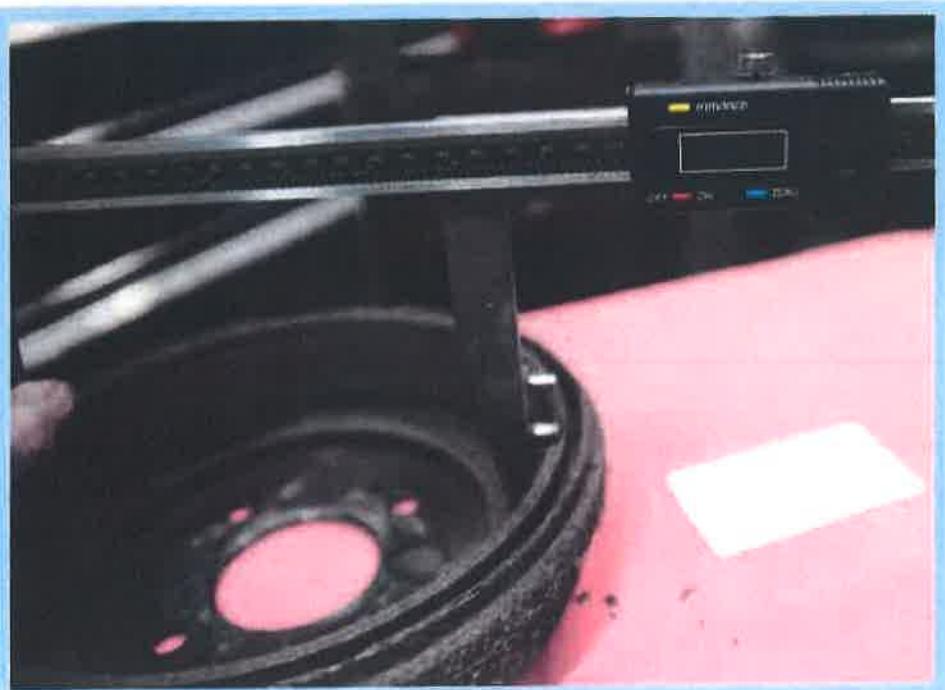


Image No. 13 This photograph depicts the brake drum located at the right rear of the 2000 Honda Civic. Wear measurement readings of the brake shoe contact areas of the brake drum exceeded minimum specifications.



**Brake Fluid Testing and Analysis**

- ◆ Dual circuit brake master cylinder design, with adequate brake fluid level.
- ◆ Primary brake fluid hydraulic system and secondary brake fluid hydraulic system intact and not compromised.
- ◆ Brake fluid analyzed for hygroscopic properties to 600 degrees Fahrenheit; met/exceeded operational safety requirements.



**Images No. 14a & 14b** These photographs depict the testing analysis of the brake fluid of the involved 2000 Honda Civic EX to 600 degrees Fahrenheit. The results were that the hygroscopic properties of the brake fluid met/exceeded standards.

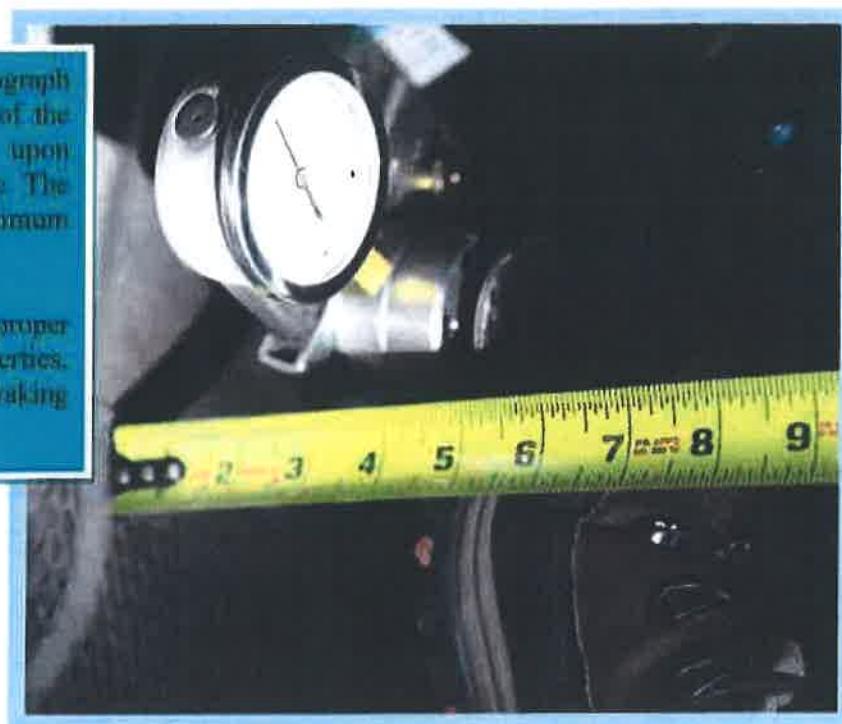


**Brake Fluid System Pressure Testing and Analysis**

- ◆ Analysis of brake system components revealed that of a fully operational hydraulic brake system at all front wheel locations.
- ◆ No brake fluid seepage evident; flexible brake hoses exhibited no swelling or restriction; steel brake lines exhibited no kinking.
- ◆ Brake pedal activation revealed that of a hard, firm pedal with no fading -- primary braking system.
- ◆ Brake pedal reserve at 100 lbs. brake pedal pressure exceeded minimum specifications.

**Image No. 18** This photograph depicts the testing analysis of the brake pedal reserve upon application of 100 lbs force. The results exceeded minimum specifications.

The testing analysis revealed proper brake fluid hydraulic properties, sufficient to provide proper braking deceleration of the vehicle.





➤ *Steering and Suspension Components*

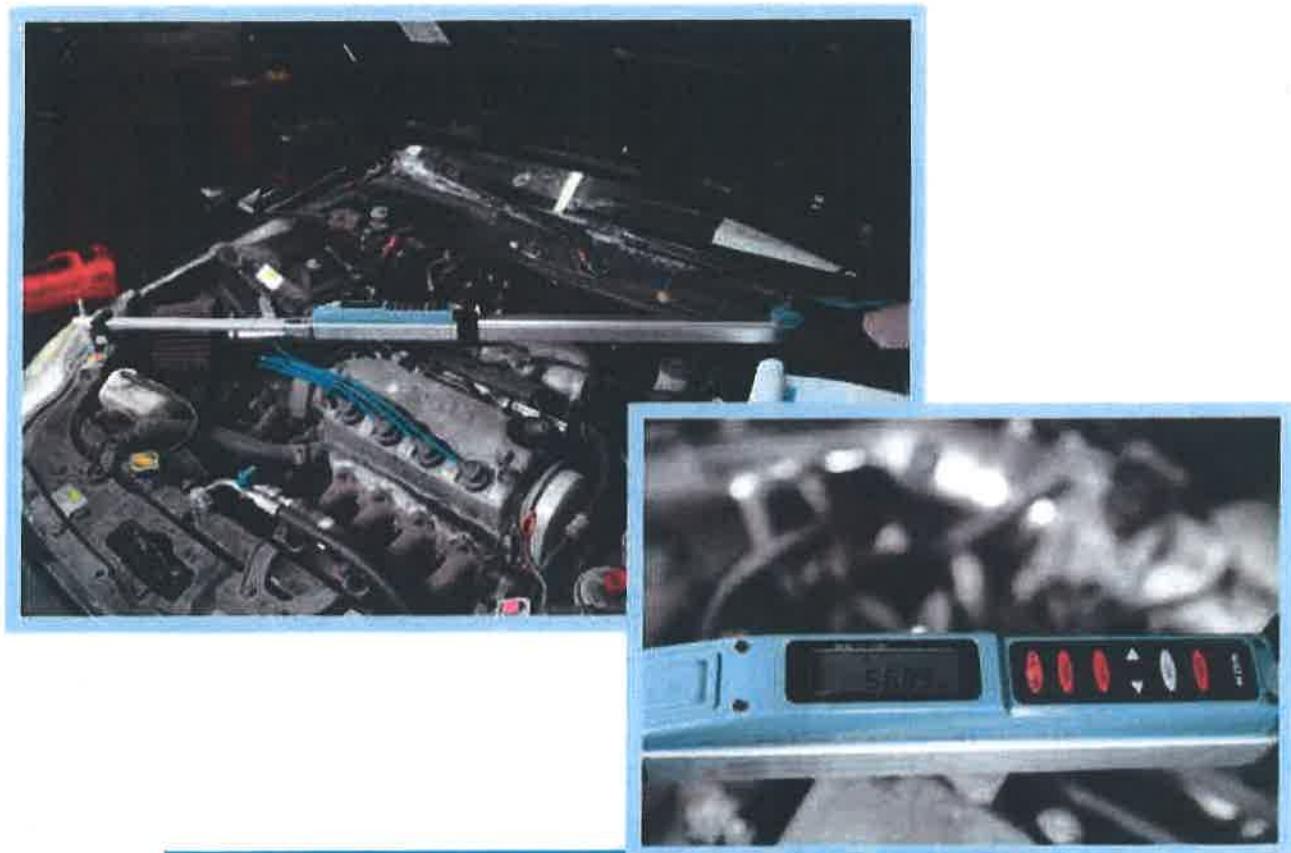
The 2000 Honda Civic EX in this case was manufactured with a variable assist power steering system incorporating a rack and pinion design gearbox. Due to variable pressure control, the power steering assist is reduced when steering resistance is low, such as during high speed operation of the vehicle.

The inspection of the steering and suspension systems of the involved 2000 Honda Civic EX revealed the following:

- ◆ Power rack and pinion steering components intact and functional.
- ◆ Steering wheel rotation resulted in positive front wheel/tire steering action; however, normal lock-to-lock transition was limited due to extreme front wheel toe out condition from severity of frontal impact with concrete barrier.
- ◆ No measurable free play -- steering wheel rotation/front tire/wheel steering action.
- ◆ Steering wheel exhibited significant deformation due to unrestrained driver impact forces.
- ◆ No measurable play at tie rod ends.
- ◆ No measurable play at lower front/rear bushings/ball joints, strut joints, or wheel bearings.
- ◆ Front subframe displaced rearward from left front vehicle violent impact with concrete barrier, resulting in diamond dimension deformation of approximately 1.22 inches.



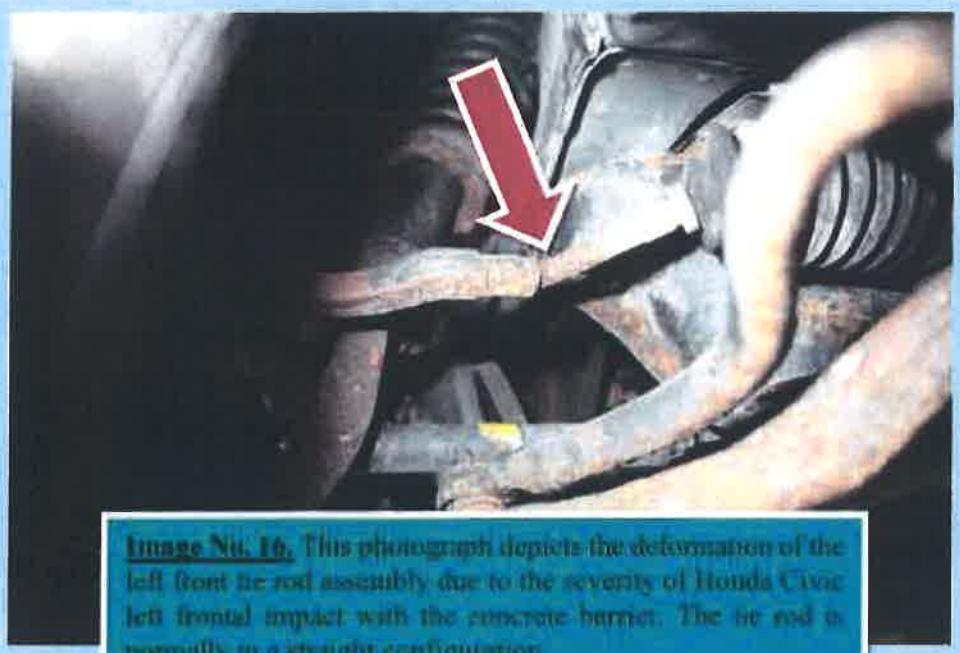
- ◆ Power steering pump pulley immobile due to impact damage resulting in absence of power steering assist<sup>5</sup>.
- ◆ Left front tie rod assembly steering components exhibited extreme deformation from vehicle violent impact with concrete barrier, contributing to front wheel toe out condition of approximately 17.4 degrees<sup>6</sup>.
- ◆ No evidence whatsoever of pre-crash component failure.



**Images No. 15a & 15b** These photographs depict the digital manometer analysis of the extent of structural damage sustained as the result of the violent impact of the left frontal area of the 2000 Honda Civic with the concrete barrier. The energy of the impact resulted in diamond deformation of the forward Y-Axis.

<sup>5</sup> Steering was operational; however, low speed operation required increased operator input.

<sup>6</sup> Honda specification for front wheel toe condition is .07 inches toe in.



**Image No. 16.** This photograph depicts the deformation of the left front tie rod assembly due to the severity of Honda Civic left front impact with the concrete barrier. The tie rod is normally in a straight configuration.

This deformation as well as subframe deformation resulted in a front wheel toe out condition of approximately 17.4 degrees.



**Image No. 17.** This photograph depicts the obvious deformation of the steering wheel of the 2000 Honda Civic consistent with the impact energy of unrestrained operator Wilson Thievemin in impact with the concrete barrier.



➤ ***Accelerator System***

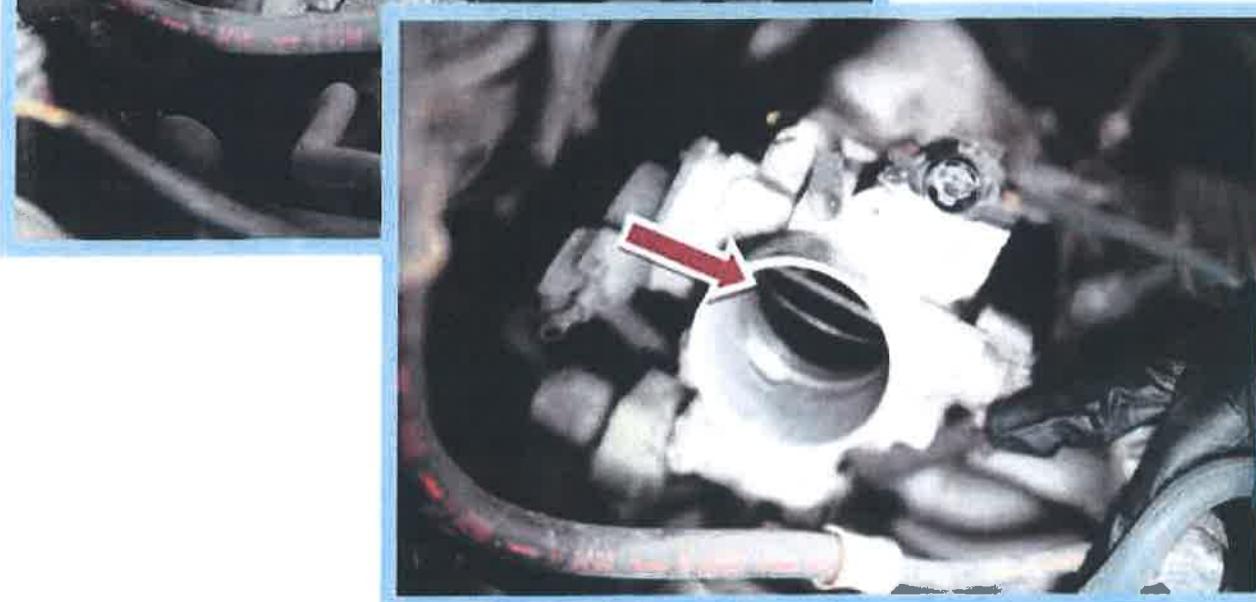
The 2000 Honda Civic in this case was manufactured with a non-electronic/non-computer controlled accelerator system, of which the primary components are 1) Accelerator Pedal; 2) Accelerator Cable; and 3) Throttle Link located at the Throttle Body of the engine.

**Accelerator System Testing and Analysis**

As a procedure of the forensic vehicle analyses in this case, the Accelerator System of the involved 2000 Honda Civic was examined and analyzed to determine proper functionality. The results of the testing and analysis are as follows:

- ✓ The Accelerator Cable operated smoothly with no binding or sticking.
- ✓ The throttle valve shaft of the Throttle Body exhibited no excessive wear or play.
- ✓ Clearance between the throttle stop screw and throttle lever of the Throttle Body was nonexistent at idle position.
- ✓ In compliance with applicable Federal Motor Vehicle Safety Standards, The Accelerator Pedal Assembly provided a positive dual spring return to idle position upon release of the accelerator pedal, with measured resistance of approximately 7.125 lbs. throughout the transition range.
- ✓ The Throttle Body Throttle Plate, equipped with the previously mentioned mandated two mechanical energy source means of closed positioning, provided a positive spring return to idle position with no binding. Measured resistance was approximately 2.250 lbs. at the Throttle Plate, and approximately 4.250 lbs. at the external Throttle Plate linkage.

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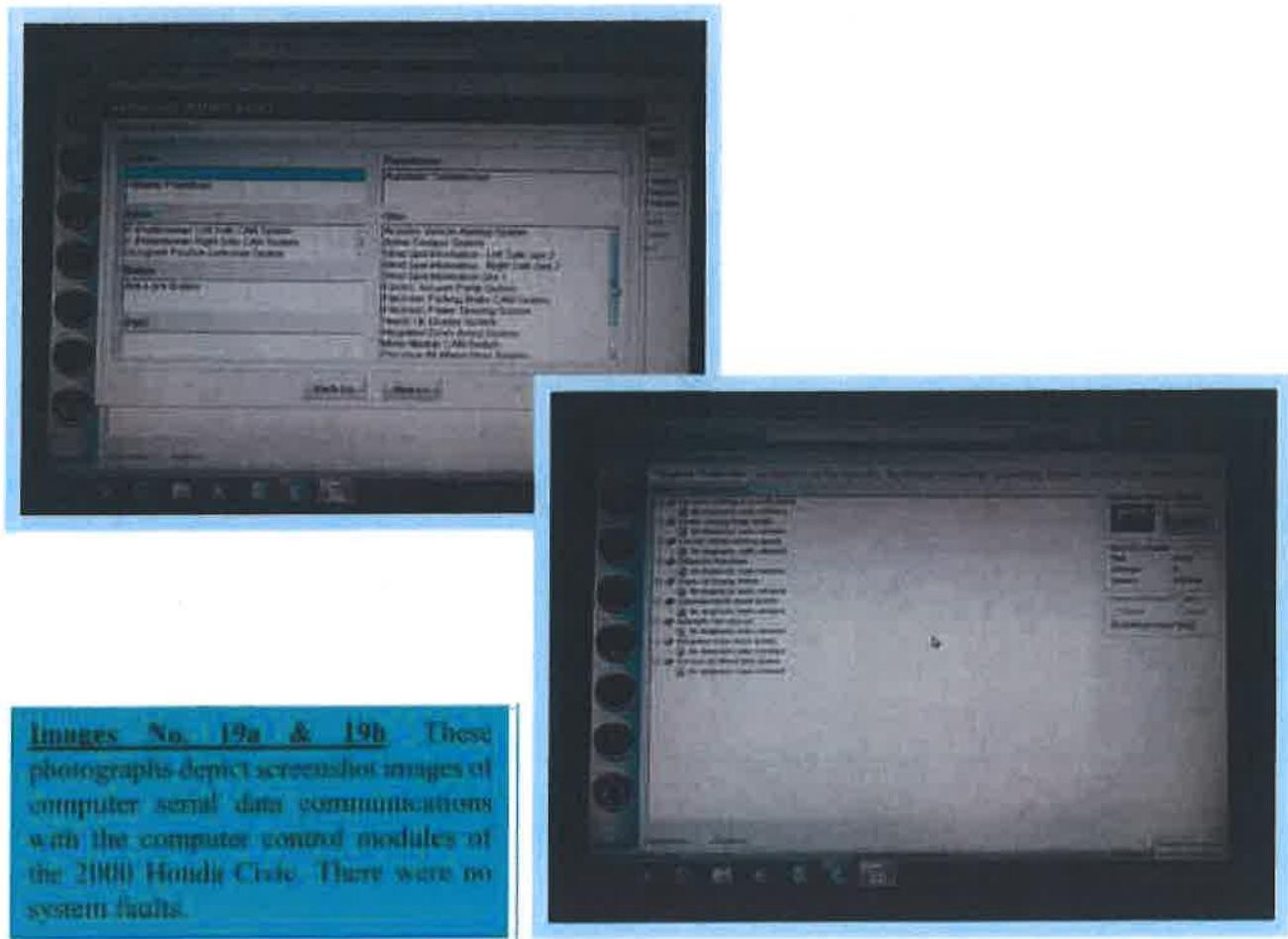


**Image No. 18a & 18b.** These photographs depict the Throttle Body of the involved 2000 Honda Civic operated by Edsun Thevomin. The Red Arrow denotes the Throttle Plate, which is mechanically tensioned to the closed (engine idle) position.



## ➤ *Computer Control Systems*

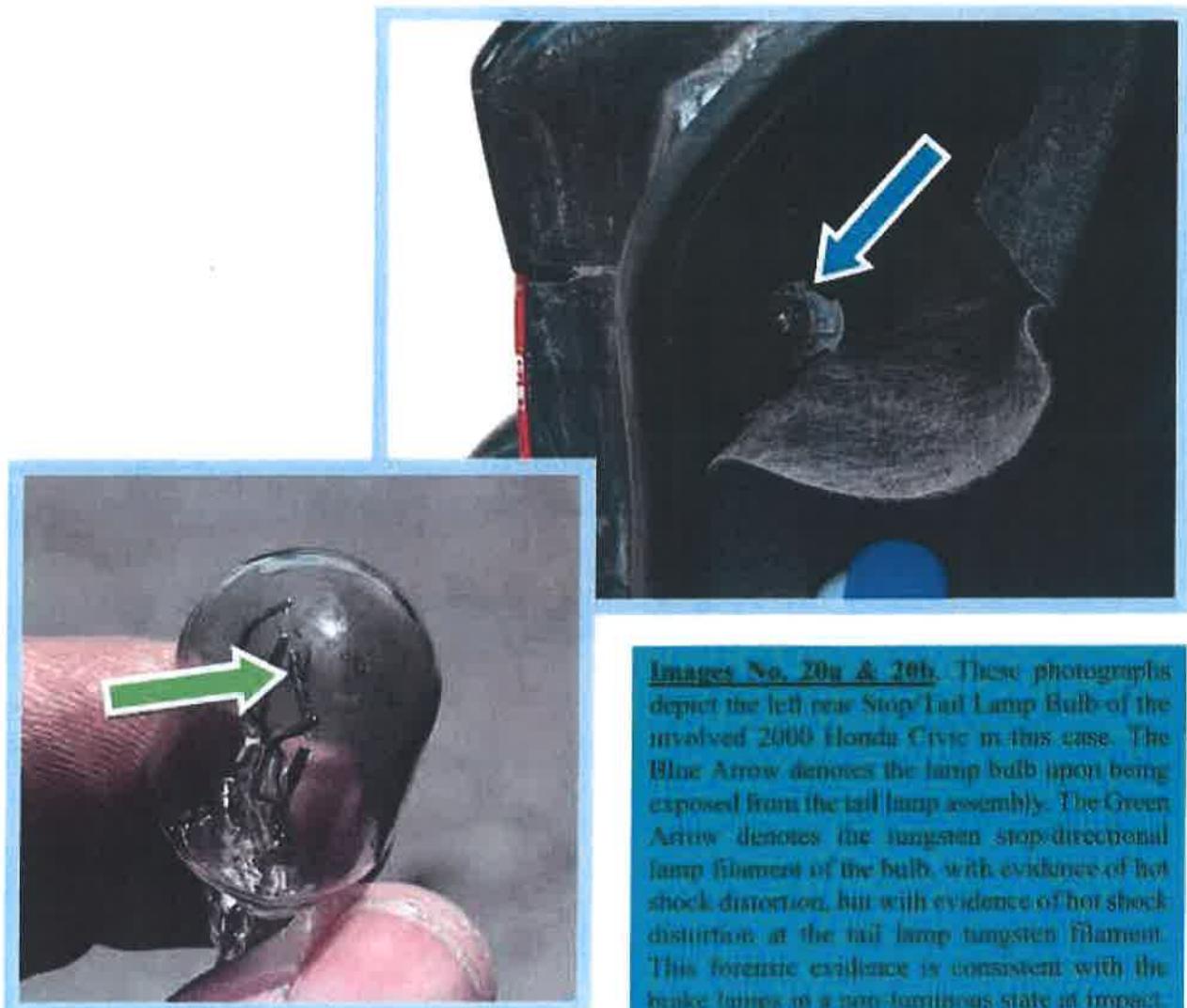
The 2000 Honda Civic EX which is the subject of these forensic analyses was manufactured with numerous computer control systems. As a procedure of the forensic vehicle analyses in this matter, computer serial data communications were initiated to provide both real time and history overview data of the computer control systems. This analysis revealed no faults within any of the computer controlled systems of the vehicle. Mode 02 Data was not recorded at impact.





➤ **Forensic Bulb Analysis, Rear Lamps**

As a segment of the vehicle autopsy of the 2000 Honda Civic EX in this case, the forensic analysis of certain light bulbs of the rear lamp assemblies of the vehicle was performed. This analysis, combined with the previously described analysis of brake system evidence, revealed evidence consistent with no brake application by 2000 Honda Civic operator Edson Thevenin at the time of the violent impact with the concrete barrier of Alternate Route 7 (Collar City Bridge).



**Images No. 20a & 20b.** These photographs depict the left rear Stop/Tail Lamp Bulb of the involved 2000 Honda Civic in this case. The Blue Arrow denotes the lamp bulb upon being exposed from the tail lamp assembly. The Green Arrow denotes the tungsten stop/directional lamp filament of the bulb, with evidence of hot shock distortion, but with evidence of hot shock distortion at the tail lamp tungsten filament. This forensic evidence is consistent with the brake lamps in a non-luminous state at impact and the tail lamps in a luminous state.



➤ *Operational Analysis – 2000 Honda Civic EX*

Due to the extent of the left frontal crash damage sustained by the 2000 Honda Civic EX as the direct result of the violent impact with the concrete barrier of Alternate Route 7 (Collar City Bridge), a logical inquiry is that of the capability of operation of the vehicle given the degree of destruction of the 2000 Honda Civic. To adequately address the concern, this forensic vehicle investigation was inclusive of providing a vehicle operational analysis, with acceleration data, with specific respect to the approximate thirty-nine (39) inch distance of alleged forward trajectory of the 2000 Honda Civic following concrete barrier impact and as the result of purposeful interface of operator Edson Thevenin.

**Procedure/Methodology**

On April 19, 2018, procedures were implemented to start the engine of the 2000 Honda Civic EX following the lengthy period of impoundment and nonuse. Once the engine was in an operational state, the 2000 Honda Civic was driven from its inspection location of the far service bay at the Troy Police Department Vehicle Maintenance Garage in a forward trajectory, out of the building, to a location within the front parking lot of the facility by placing the transmission gear selector in DRIVE and providing acceleration. The transmission gear selector of the vehicle was then moved to the REVERSE position, providing operation of the vehicle in a rearward direction upon acceleration within the confines of the parking lot. Next, the transmission gear selector was again placed in the DRIVE position, and the 2000 Honda Civic was accelerated in a forward trajectory within the confines of the garage facility parking lot. The transmission gear selector of the 2000 Honda Civic EX was then placed again in the REVERSE position, and the vehicle was again accelerated in a rearward direction nearly the entire length of the parking lot located at the front of the repair facility building.

Now at a location within the confines of the parking lot near the westerly end of the facility location at 1652 5th Avenue, acceleration procedures and analysis of the 2000 Honda Civic EX were performed by implementing the use of a Vericom VC4000DAQ computer attached to the vehicle. The computer acceleration distance for the forward acceleration analysis was



entered as six (6.0) feet to allow for data well beyond that of the specified thirty-nine (39) inches of forward trajectory of the Honda Civic from the rearward impact location of the Honda Civic with the frontal area of the Troy Police Department 2012 Chevrolet Impala to impact with Troy Police Sergeant Randall French, who was positioned near the left rear quarter panel of the marked 2013 Ford Taurus police cruiser.<sup>7</sup>

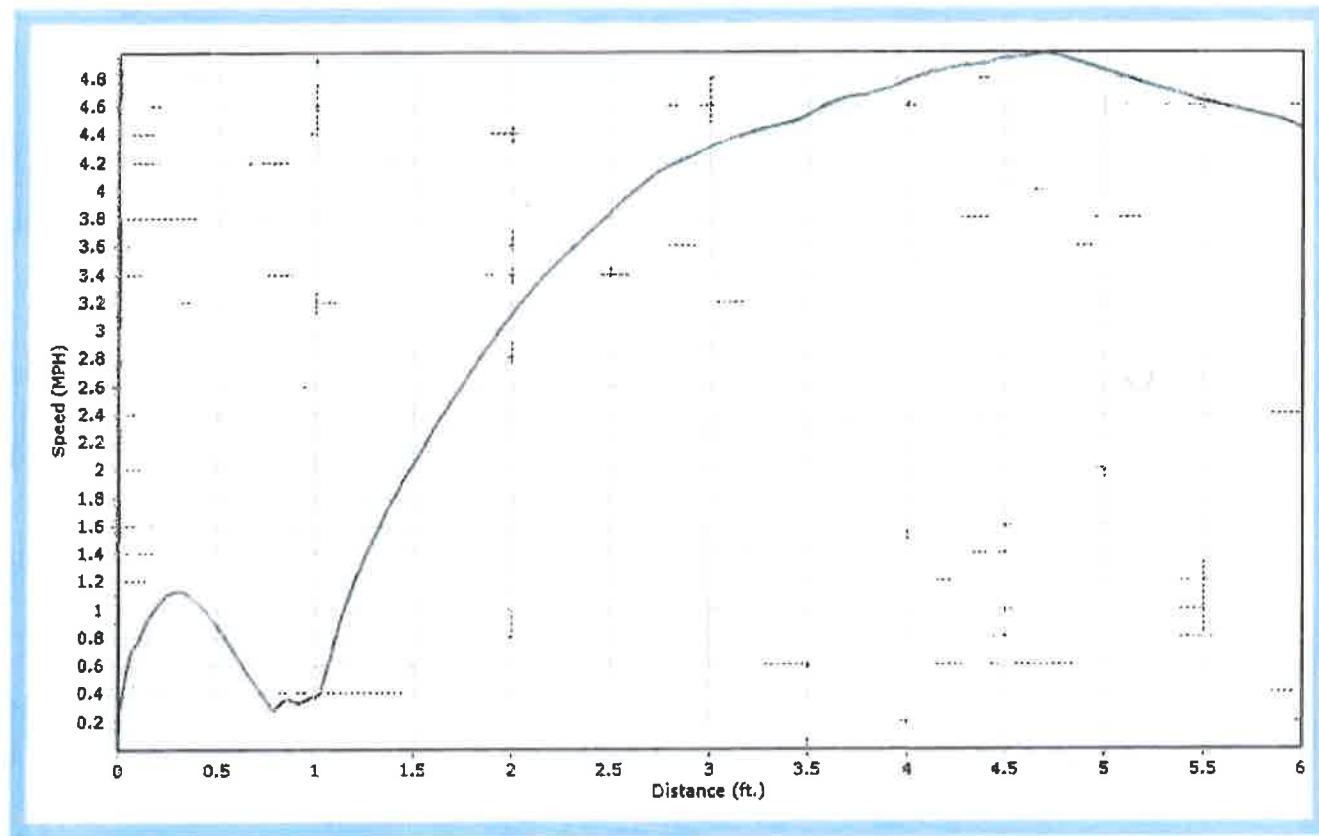
**2000 Honda Civic Acceleration Computer Analysis Results**

The computer analysis of forward acceleration of the 2000 Honda Civic EX, performed on April 19, 2018 at the Troy Police Department Vehicle Maintenance garage parking lot, revealed that the vehicle accelerated a distance of six (6.0) feet from a stopped position in 2.23 seconds, attaining a speed of 4.8 miles per hour.



**Image No. 21** This photograph depicts the Vericom VC4000DAQ computer analysis results of the forward acceleration of the 2000 Honda Civic over a distance of six (6.0) feet from a stopped position.

<sup>7</sup> The approximate 39 inches of forward trajectory distance was established by Craig Fries during a prior investigation; however, Mr. Fries also concluded that the distance of the vehicle backing was 39 inches, which is blatantly incorrect.



**Image No. 22** This graph depicts the Speed of the acceleration of the 2000 Honda Civic in comparison to the Distance of the acceleration of the vehicle. This data and graph were the result of Vetricom VC4000DAQC computer acceleration analysis.



## 2000 Honda Civic EX Computer Acceleration Test Results

TIME (secs)	ACCEL (g)	SPEED (mph)	DIST (ft)
1.690	<b>0.382</b>	<b>3.18</b>	<b>2.03</b>
1.700	<b>0.370</b>	<b>3.26</b>	<b>2.08</b>
1.710	<b>0.360</b>	<b>3.34</b>	<b>2.13</b>
1.720	<b>0.349</b>	<b>3.41</b>	<b>2.18</b>
1.730	<b>0.334</b>	<b>3.49</b>	<b>2.23</b>
1.740	<b>0.320</b>	<b>3.56</b>	<b>2.28</b>
1.750	<b>0.322</b>	<b>3.63</b>	<b>2.33</b>
1.760	<b>0.324</b>	<b>3.70</b>	<b>2.39</b>
1.770	<b>0.328</b>	<b>3.77</b>	<b>2.44</b>
1.780	<b>0.338</b>	<b>3.84</b>	<b>2.50</b>
1.790	<b>0.348</b>	<b>3.92</b>	<b>2.55</b>
1.800	<b>0.361</b>	<b>4.00</b>	<b>2.61</b>
1.810	<b>0.311</b>	<b>4.07</b>	<b>2.67</b>
1.820	<b>0.270</b>	<b>4.13</b>	<b>2.73</b>
1.830	<b>0.218</b>	<b>4.18</b>	<b>2.79</b>
1.840	<b>0.186</b>	<b>4.22</b>	<b>2.85</b>
1.850	<b>0.185</b>	<b>4.26</b>	<b>2.92</b>
1.860	<b>0.191</b>	<b>4.30</b>	<b>2.98</b>
1.870	<b>0.197</b>	<b>4.34</b>	<b>3.04</b>
1.880	<b>0.148</b>	<b>4.37</b>	<b>3.11</b>
1.890	<b>0.106</b>	<b>4.40</b>	<b>3.17</b>
<b>1.900</b>	<b>0.127</b>	<b>4.43</b>	<b>3.23(38.76 in)</b>
<b>1.910</b>	<b>0.098</b>	<b>4.45</b>	<b>3.30(39.60 in)</b>
<b>1.920</b>	<b>0.096</b>	<b>4.47</b>	<b>3.36(40.32 in)</b>

**Image No. 23** This graph depicts a segment of the computer acceleration data of the 2000 Honda Civic. The targeted distance was that of the reported 39 inches of forward vehicle movement of the jacking of April 17, 2016. The bold data in RFD provide tracking of that distance.



**2000 Honda Civic Acceleration Analysis Summary**

The operation and computer acceleration analysis of the involved 2000 Honda, conducted on April 19, 2018, revealed that the vehicle was capable of forward motion and rearward motion upon operator/accelerator interface with the transmission gear selector placed in REVERSE and DRIVE positions. Due to the severity of the frontal structural damage of the vehicle, which resulted in the previously described approximate 17.4 degree front wheel toe out condition, movement of the vehicle under power required significant accelerator input resulting in noticeably increased engine RPM. As a companion effect of the substantial front wheel toe out condition due to violent impact structural damage, deceleration of the vehicle was immediately realized due to the significant increase in rolling resistance of the vehicle. Furthermore, the turning radius of the 2000 Honda Civic was significantly reduced due to the toe out condition of the front wheels.

In addition to the readily apparent increased engine RPM required to accelerate the 2000 Honda Civic from a stopped position, perceptible metallic clanging noises emanated from the left front drive axle CV Joints of the vehicle -- also the result of damage due to the severity of vehicular impact with the concrete barrier on April 17, 2016.

**Image No. 24** This photograph depicts the obvious front wheel toe out condition of the front wheels of the 2000 Honda Civic from the severity of frontal impact with the concrete barrier on April 17, 2016. This condition resulted in a significant increase in vehicle rolling resistance.





The computer acceleration analysis of the 2000 Honda Civic revealed that the maximum acceleration speed for the distance of 39.60 inches was 4.43 miles per hour, and that the minimum time to traverse the distance of 39.60 inches was 1.910 seconds under full acceleration input. Accordingly, the maximum level of Kinetic Energy of the 2000 Honda Civic would have been 1755.7743 ft-lbs<sup>8</sup>.

➤ **Vehicle Damage Analysis**

The vehicle forensic and crash reconstruction procedures of April 18th and 19th of 2018 were inclusive of the forensic analysis of vehicle damage sustained by the 2000 Honda Civic operated by Edson Thevenin. In addition, continued forensic damage analyses of the involved Honda Civic as well as that of the involved Troy Police Department 2013 Ford Taurus police cruiser were performed on June 6, 2018. Based upon the forensic damage analysis of the two vehicles, impact damage physical evidence forensic matchup of the two involved vehicles was conducted on June 6, 2018.

**2000 Honda Accord Operated by Edson Thevenin Damage Analysis**

Forensic crash damage analysis of the 2000 Honda Civic EX operated by Edson Thevenin, performed with angled remote flash, digital microscopic examination, and digital measuring devices, revealed the following:

1) **Location of Damage**: Right Rear Bumper Cover.

**Description of Damage**: Paint scuffing/scratching; paint delamination; fracturing of plastic rear bumper cover material.

**Analysis of Damage**: Consistent with impact with frontal front bumper cover area of Troy Police Department 2012 Chevrolet Impala as the result of rearward backing trajectory of 2000 Honda Civic.

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<sup>8</sup> Kinetic Energy formula input data of the maximum vehicle speed of 4.43 miles per hour, with vehicle weight of 2684 lbs.

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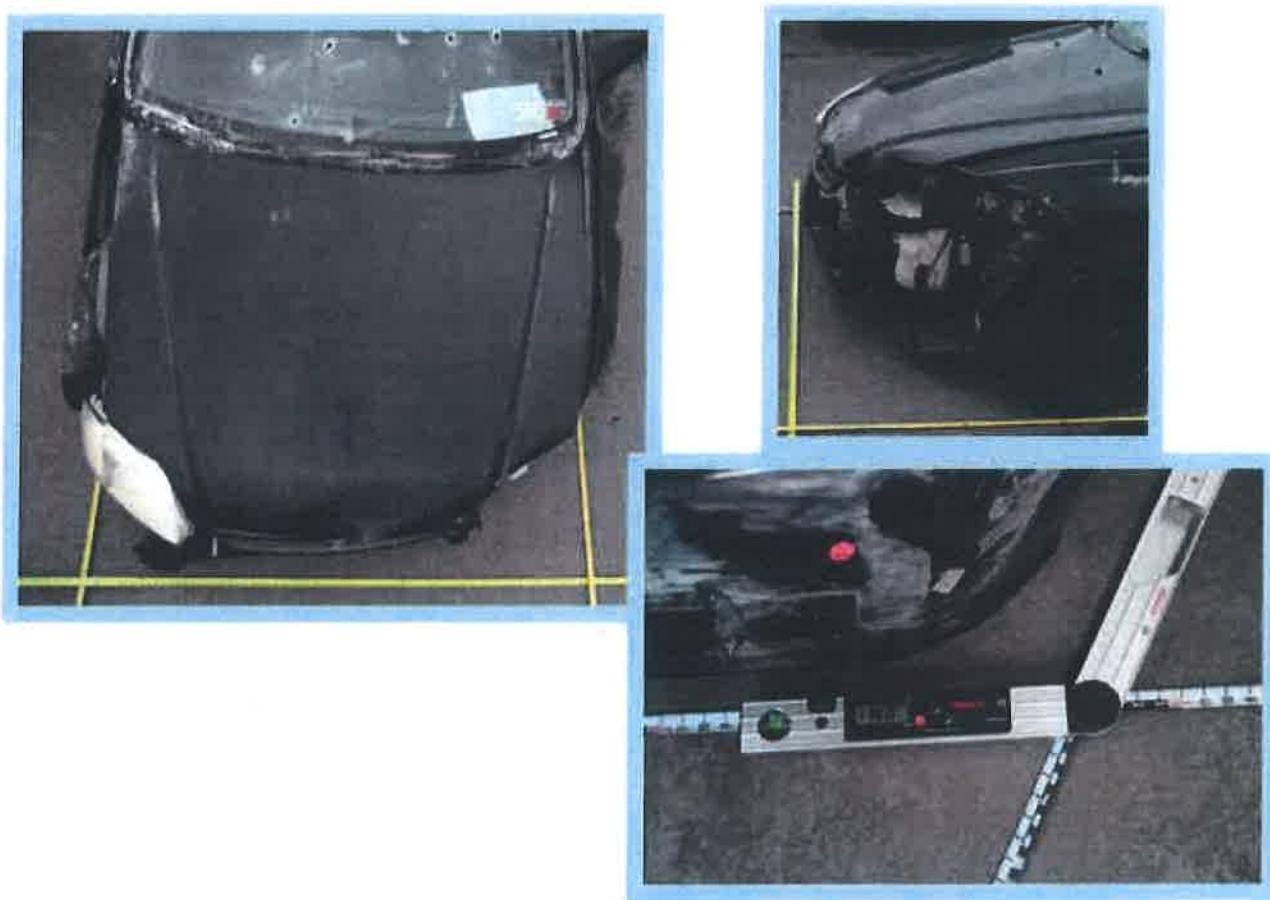
**Images No. 25a & 25b** These photographs depict the impact damage of the right rear bumper cover of the 2000 Honda Civic (top photo), consistent with rearward (bucking) impact with the front bumper cover of the Troy Police Department 2012 Chevrolet Impala (bottom photo).



2) Location of Damage: Left Frontal Area.

Description of Damage: Front bumper cover paint scuffing/scratching, front bumper cover detachment; structural damage inclusive of rearward deformation of front subframe assembly; obvious toe out condition of front wheels; left wheelbase reduced approximately 2.09 inches.

Analysis of Damage: Consistent with severity of frontal vehicle impact with concrete barrier of Alternate Route 7 (Collar City Bridge).



**Images No. 26a, 26b, & 26c**: These photographs depict the impact damage of the left front of the 2001 Honda Civic, consistent with the violent concrete barrier impact of April 17, 2016. Utilizing digital measuring equipment, the impact angle was determined to be approximately 118 degrees (side) 78 degrees (front).



3) Location of Damage: Right Front Fender.

Description of Damage: Paint delamination/striations; paint transfer; inward deformation/stretching of sheet metal.

Analysis of Damage: See Vehicle Damage Matchup Section.

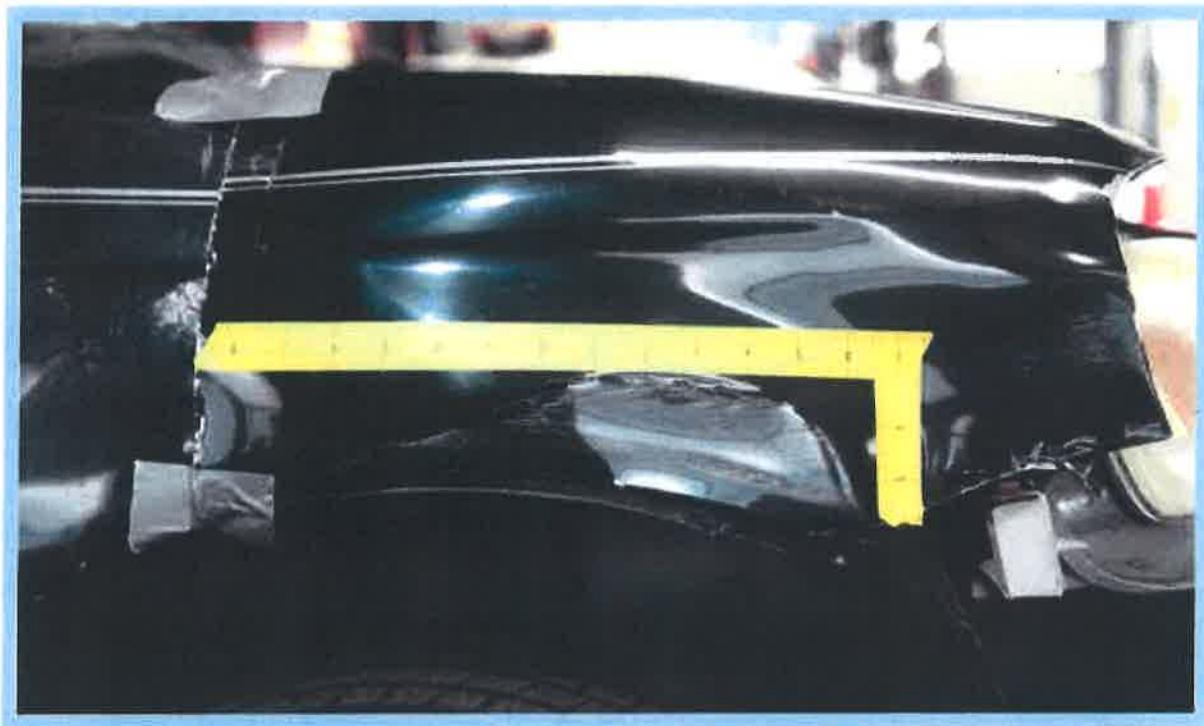


Image No. 27: This photograph depicts the impact damage sustained by the right front fender of the 2000 Honda Civic, consisting of paint delamination, paint transfer, paint striations, and significant metal deformation/stretching. Digital microscopic analysis revealed that the paint striations were that of left-to-right in the photograph (rear-to-front on the vehicle).

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4) Location of Damage: Right Outside Rearview Mirror.

Description of Damage: Forcefully detached in forward trajectory. Paint chipping/striations/scuffing.

Analysis of Damage: See Vehicle Damage Matchup Section.





Images No. 28a, 28b, & 28c: These photographs depict the right outside rearview mirror location and mirror of the 2000 Honda Civic. The previous page photo denotes the location of the mirror on the vehicle prior to detachment, while the two photos above denote the trajectory final rest location of the mirror in the area of the front of the left rear tire of the 2013 Ford Taurus police cruiser operated by Troy Police Sergeant Randall French at the scene of the April 17, 2016 incident. The mirror exhibited paint scratches/chipping, with no evidence whatsoever of having been run over by a vehicle tire.



5) Location of Damage: Front Bumper Cover, Right Side (forward of right front tire).

Description of Damage: Paint transfer, striations, scuffing.

Analysis of Damage: See Vehicle Damage Matchup Section.



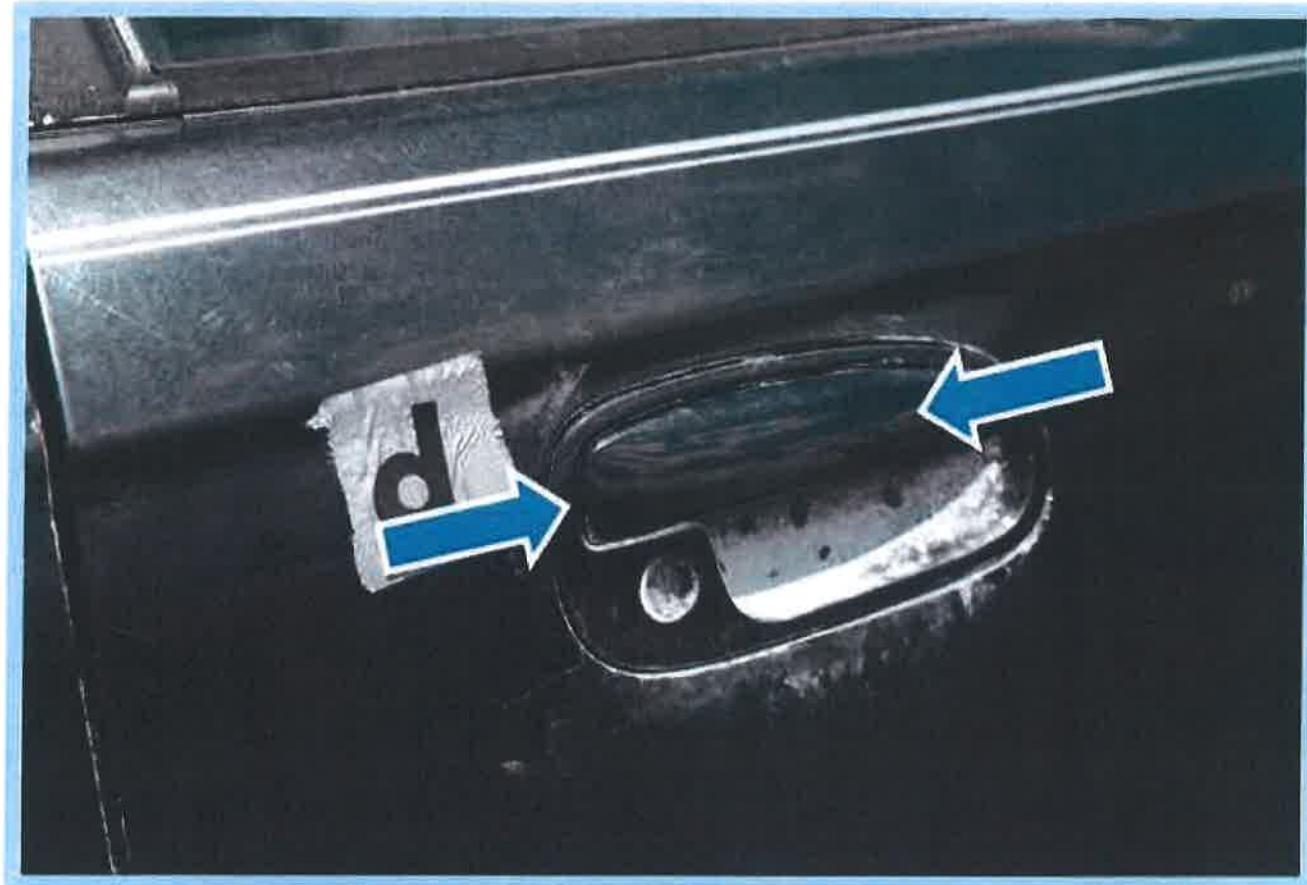
Images No. 29: This photograph depicts the right front bumper cover of the 2009 Honda Civic, directly ahead of the right front tire. The Green Arrow denotes paint transfer and scuffing, with striations also present.



6) Location of Damage: Right Outside Door Handle.

Description of Damage: Paint striations, scuffing.

Analysis of Damage: See Vehicle Damage Matchup Section.



Images No. 30: This photograph depicts the right outside door handle of the 2000 Honda Civic, directly ahead of the right front tire. Distinctive scuffing was apparent on the paint surface of the door handle toward of the left Blue Arrow, with striations present in the approximate area between the two Blue Arrows. The direction of the damage was left-to-right in the photograph (rear-to-front on the vehicle).



7) Location of Damage: Right Rear Quarter Panel Side Guard Molding.

Description of Damage: Material striations/scuffing; material friction wear.

Analysis of Damage: See Vehicle Damage Matchup Section.



**Images No. 31a & 31b.** These photographs depict the described damage present on the right side quarter panel side guard molding of the 2006 Honda Civic. Note the obvious friction wear (Red Arrows). The direction of the damage was left-to-right in the photograph (rear-to-front on the vehicle).



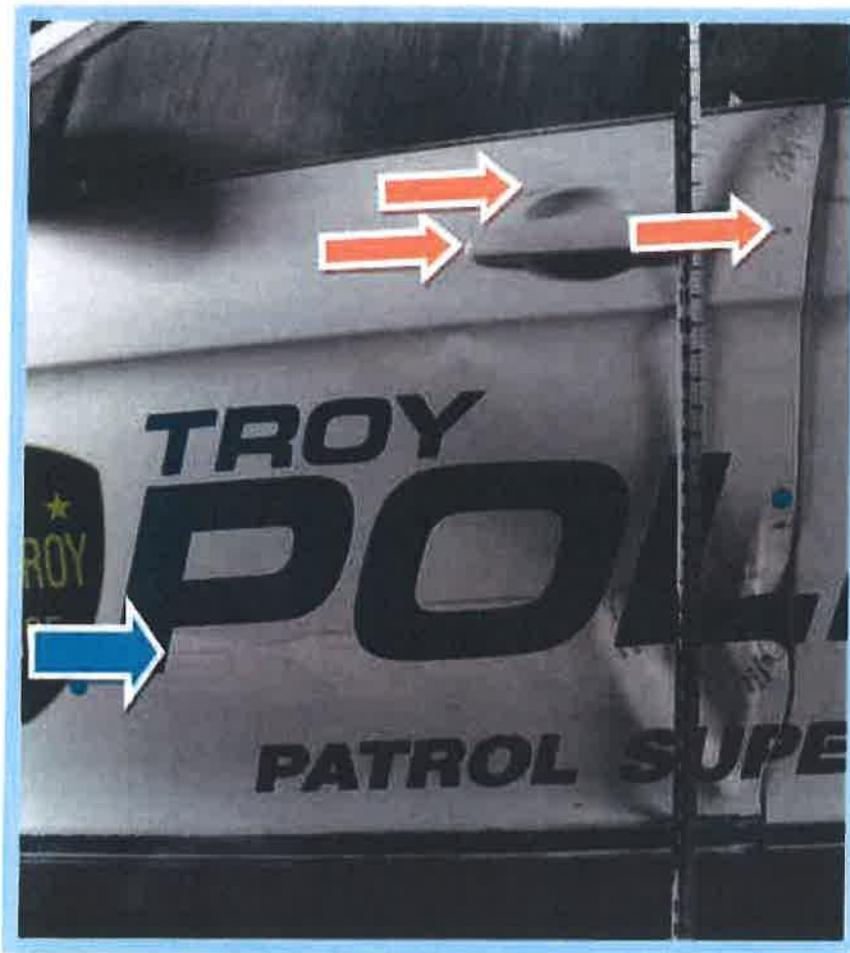
**2013 Ford Taurus Police Cruiser Operated by Sergeant Randall French Damage Analysis**

Forensic crash damage analysis of the Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French, performed with angled remote flash, digital microscopic examination, and digital measuring devices, revealed the following:

- 1) **Location of Damage**: Left Front Door, Outer Panel.

**Description of Damage**: Paint transfer; striations/scuffing; significant outer steel door panel deformation inclusive of creasing, indentation, and buckling; scuffing at outside door handle location.

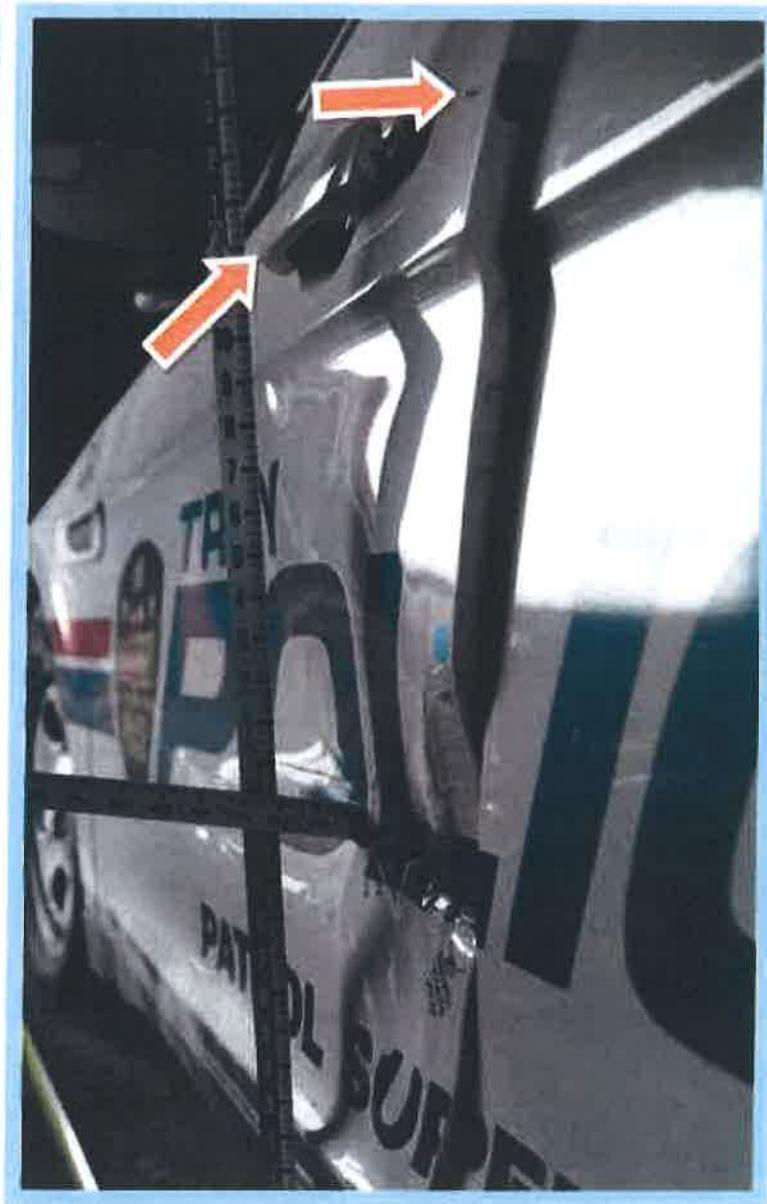
**Analysis of Damage**: See Vehicle Damage Matchup Section.



**Image No. 32a**: This photograph depicts the described substantial contact damage present in the left front steel door panel of the 2013 Ford Taurus. Note the obvious panel deformation in the area of the vertical tape measure. The Orange Arrows denote scuffing transfer at the leading edge, exterior surface, above, and rearward of the outside door handle. The initiation and direction of the damage was that of the Blue Arrow, left-to-right in the photograph (front-to-rear on the vehicle).



**Image No. 32b:** This photograph depicts the described substantial contact damage present at the left outer steel door panel of the 2013 Ford Taurus. Note the significant intrusion and panel buckling due to impact. Also note the scuffing present on, and to the rear of the exterior door handle (Orange Arrows). The referenced exterior door handle was displaced slightly rearward from front-to-rear forces.





2) Location of Damage: Left Rear Door, Upper Forward Outer Panel.

Description of Damage: Striations/scuffing/transfer -- continuous rearward from left front outer door handle damage.

Analysis of Damage: See Vehicle Damage Matchup Section.

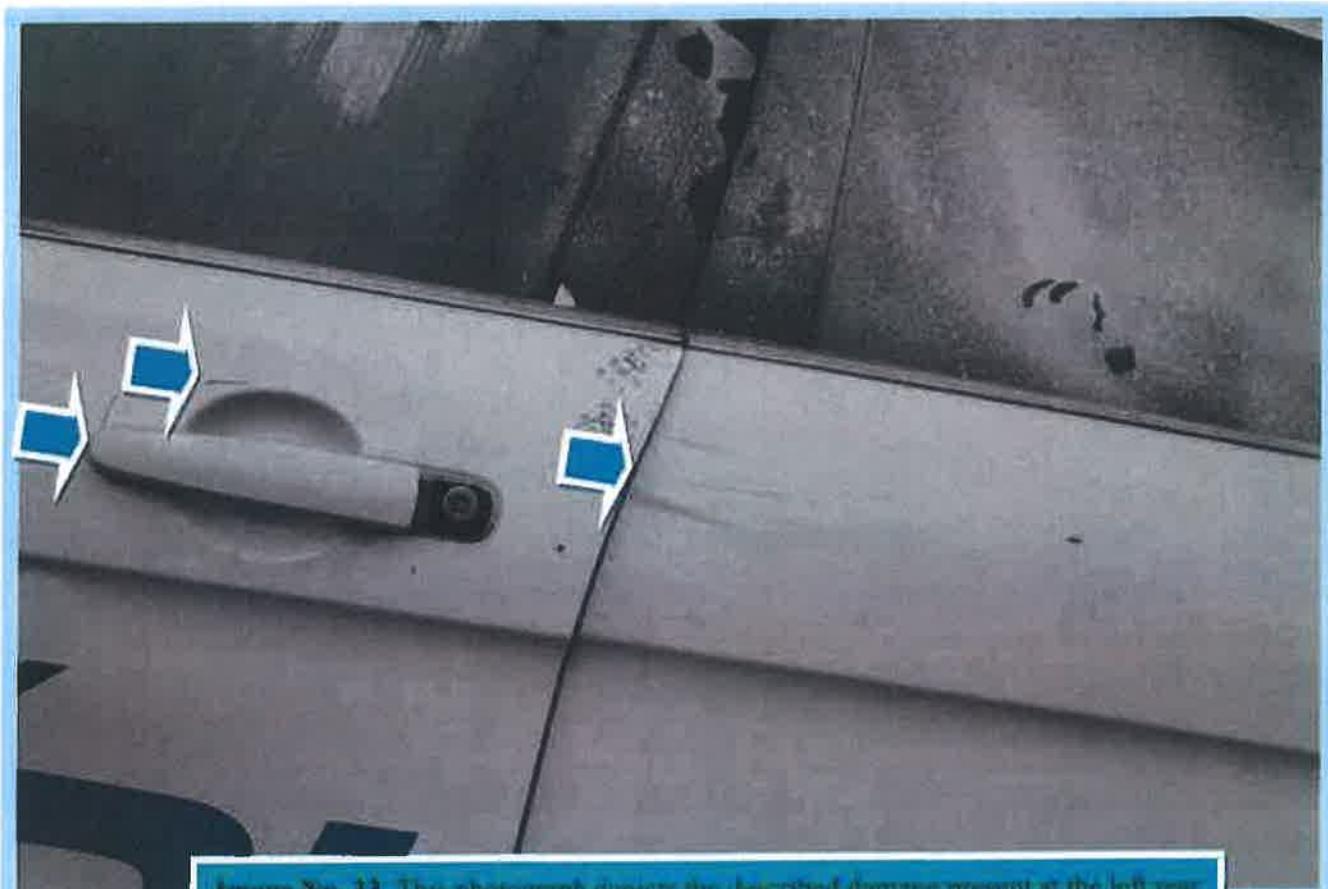


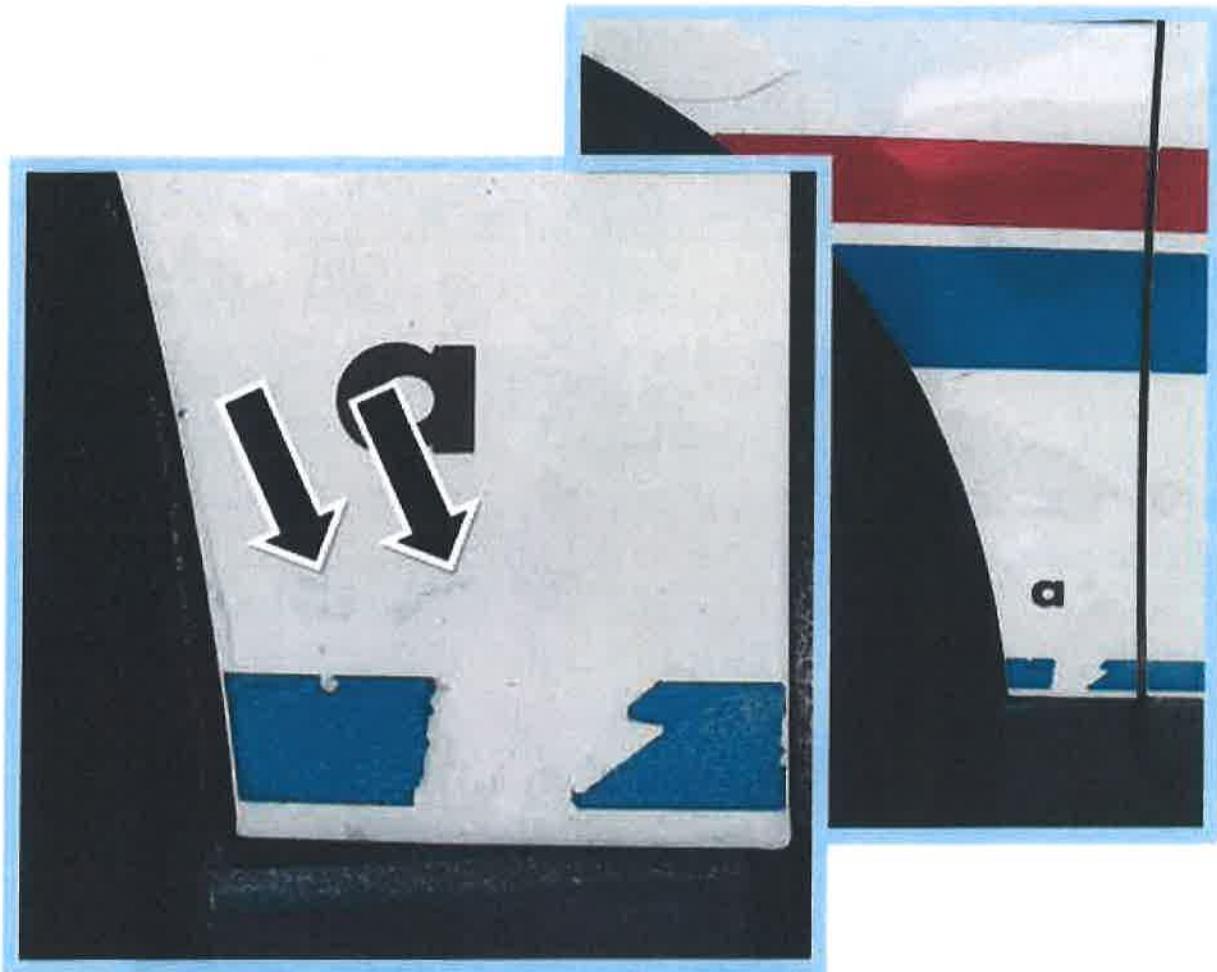
Image No. 33. This photograph depicts the described damage present at the left rear door upper forward outer panel of the 2013 Ford Taurus. Note the obvious scuffing/transfer (Blue Arrows). The direction of the damage was left-to-right in the photograph (front-to-rear on the vehicle).



3) Location of Damage: Left Front Fender, Lower Rear Section.

Description of Damage: Striations/scuffing/transfer.

Analysis of Damage: See Vehicle Damage Matchup Section.



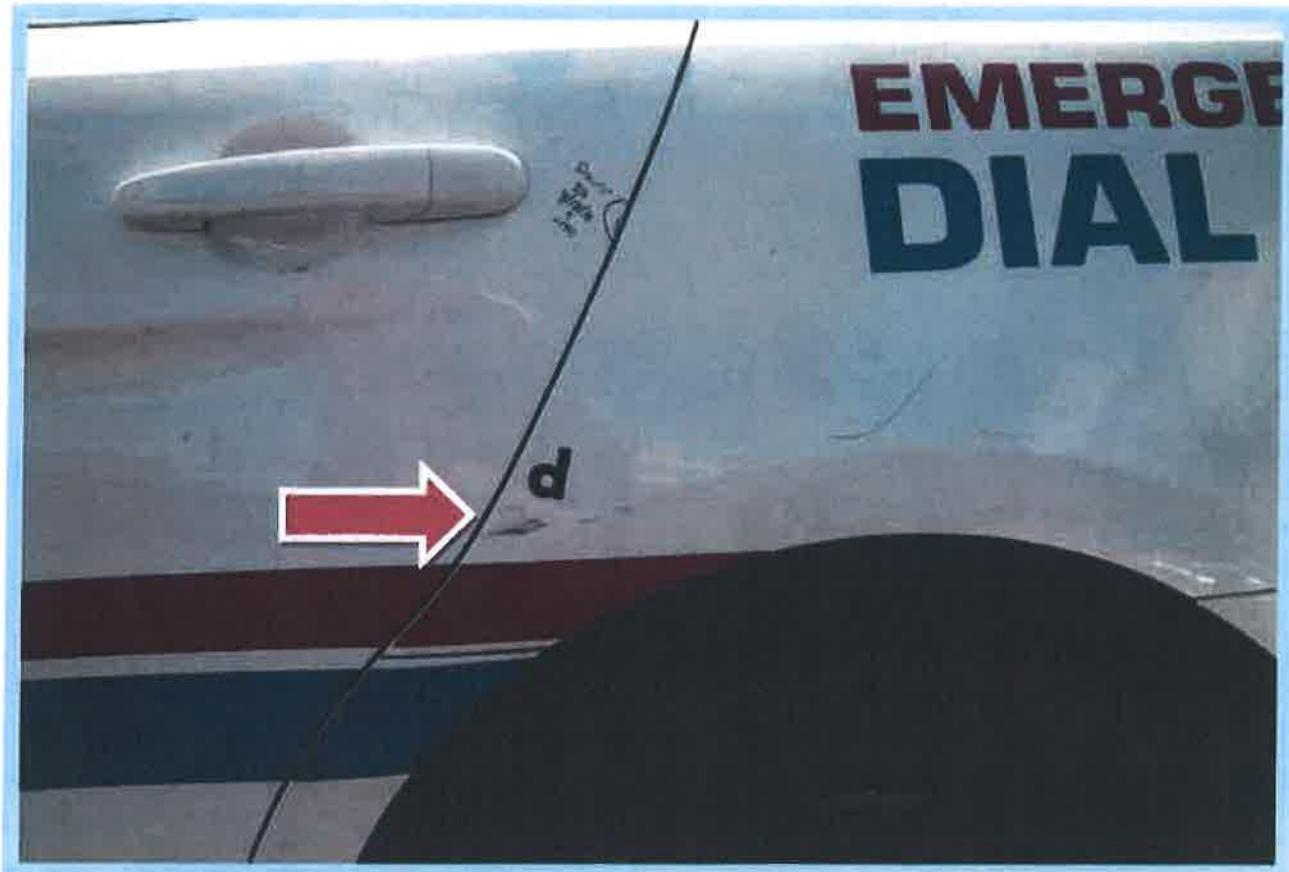
**Image No. 34** This photograph depicts the described damage present at the left rear lower front fender panel of the 2013 Ford Taurus. Note the obvious scuffing/transfer (Black Arrows).



4) Location of Damage: Left Rear Quarter Panel, Forward Upper Wheel Well Area.

Description of Damage: Striations/scuffing/transfer.

Analysis of Damage: See Vehicle Damage Matchup Section.



**Image No. 35** This photograph depicts the described damage present at the left rear quarter panel/upper dog leg area of the 2013 Ford Taurus. Note the obvious scuffing/transfer (Red Arrow).



5) Location of Damage: Left Rear Door Panel, Lower Rear into Dog Leg.

Description of Damage: Striations/scuffing/transfer.

Analysis of Damage: See Vehicle Damage Matchup Section.



Image No. 36: This photograph depicts the described damage present at the left rear quarter panel of the 2013 Ford Taurus. Note the obvious scuffing/transfer (Blue Arrow).



➤ **Vehicle Damage Matchup Analysis**

The vehicle forensic and crash reconstruction procedures of June 6, 2018 were focused on the forensic matchup analysis of vehicle damage sustained by the 2000 Honda Civic operated by Edson Thevenin, as well as the vehicle damage sustained by the involved Troy Police Department 2013 Ford Taurus police cruiser operated by Troy Police Sergeant Randall French. The following information and photographs provide the procedures of the forensic vehicle damage matchup and results thereof.

**A) Vehicle: 2000 Honda Civic EX Operated by Edson Thevenin**

***Damage Location/Description:*** Right Outside Rearview Mirror Detachment (See Honda Civic Vehicle Damage Analysis No. 4, Pages 37 & 38)

**Vehicle: 2013 Ford Taurus Operated by Troy Police Sergeant Randall French**

***Damage Location/Description:*** Left Front Door, Exterior Door Handle Area, Left Rear Door, Upper Forward Area (See Ford Taurus Vehicle Damage Analysis Nos. 1 & 2, Pages 42-44)

**Conclusion:** The forensic analysis of the damage present at the exterior door handle area of the left front door, and upper forward exterior door panel of the left rear door, of the Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French; the forensic analysis of the damage present at the right outside rearview mirror detached from the 2000 Honda Civic EX operated by Edson Thevenin; and the forensic damage matchup thereof revealed contact damage and forceful outside Honda mirror detachment consistent with impact by the left front outside door handle of the faster moving Ford Taurus.

ATTORNEYS' EYES ONLY





Images No. 37a, 37b, & 37c. These photographs (previous page and above) depict the forensic matchup of the scuff/transfer marks of the 2013 Ford Taurus with the 2000 Honda Civic right outside rearview mirror prior to and during detachment. The Red Arrows denote areas of black transfer and scuffing present on the Ford Taurus.

The above photograph represents the right outside rearview mirror during detachment due to impact by the left front exterior door handle of the 2013 Ford Taurus, being operated at a fast rate of speed. The mirror will become completely detached from the Honda Civic, and continue its trajectory to final rest in front of the left rear tire of the 2013 Ford Taurus at its stopped location.



**B) Vehicle: 2000 Honda Civic EX Operated by Edson Thevenin**

**Damage Location/Description:** Right Rear Door Outside Door Handle (See Honda Civic Vehicle Damage Analysis No. 6, Page 40)

**Vehicle: 2013 Ford Taurus Operated by Troy Police Sergeant Randall French**

**Damage Location/Description:** Left Rear Quarter Panel, Upper Dog Leg Area (See Ford Taurus Vehicle Damage Analysis No. 4, Page 46)

**Conclusion:** The forensic analysis of the damage present at the left rear quarter panel, upper dog leg area of the Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French; the forensic analysis of the damage present at the right rear exterior door handle of the 2000 Honda Civic EX operated by Edson Thevenin; and the forensic damage matchup thereof revealed contact damage consistent with a sideswipe event of the two motor vehicles; more specifically, that of the Ford Taurus left side/Honda Civic right side impact of the Ford Taurus operated at the faster rate of speed.



**Image No. 38** The above photograph depicts the forensic matchup of the scuff/paint marks at the left rear forward quarter panel of the 2013 Ford Taurus with the right rear exterior door handle of the 2000 Honda Civic. The Orange Arrows denote the approximate contact areas.



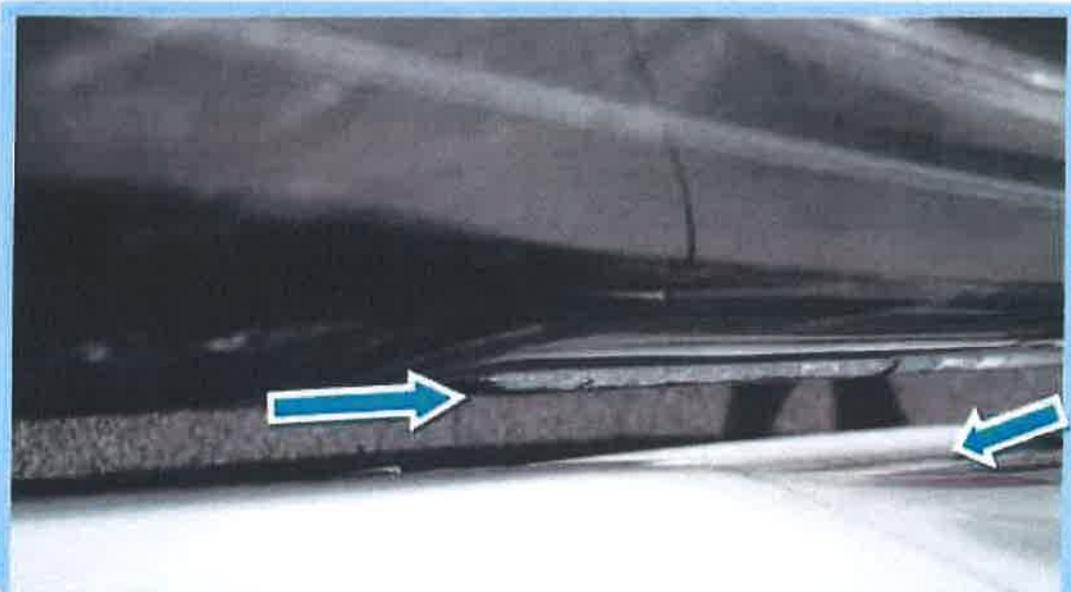
C) **Vehicle:** 2000 Honda Civic EX Operated by Edson Thevenin

***Damage Location/Description:*** Right Rear Exterior Side Guard Molding (See Honda Civic Vehicle Damage Analysis No. 7, Page 41)

**Vehicle:** 2013 Ford Taurus Operated by Troy Police Sergeant Randall French

***Damage Location/Description:*** Left Rear Lower Exterior Door Panel and Dog Leg Area (See Ford Taurus Vehicle Damage Analysis No. 5, Page 47)

**Conclusion:** The forensic analysis of the damage present at the left rear exterior door panel and dog leg area of the Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French; the forensic analysis of the damage present at the right rear exterior side guard molding of the 2000 Honda Civic EX operated by Edson Thevenin; and the forensic damage matchup thereof revealed contact damage consistent with a sideswipe event of the two motor vehicles; more specifically, that of the Ford Taurus left side/Honda Civic right side impact of the Ford Taurus operated at the faster rate of speed.



**Image No. 39:** The above photograph depicts the forensic matchup of the scuff transfer marks of the left rear exterior door panel of the 2013 Ford Taurus with the right rear exterior side guard molding of the 2000 Honda Civic. The blue arrows denote the approximate contact areas.



D) **Vehicle:** 2000 Honda Civic EX Operated by Edson Thevenin

***Damage Location/Description:*** Front Bumper Cover, Right Side (See Honda Civic Vehicle Damage Analysis No. 5, Page 39)

**Vehicle:** 2013 Ford Taurus Operated by Troy Police Sergeant Randall French

***Damage Location/Description:*** Left Front Fender, Lower Rear Section (See Ford Taurus Vehicle Damage Analysis No. 3, Page 45)

**Conclusion:** The forensic analysis of the damage present at the left front lower rear fender panel of the Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French; the forensic analysis of the damage present at the right side of the front bumper cover of the 2000 Honda Civic EX operated by Edson Thevenin; and the forensic damage matchup thereof revealed damage consistent with a contact event of the two motor vehicles.



**Image No. 40:** The above photograph depicts the forensic matchup of the scuff transfer marks of the lower rear panel of the left front fender of the 2013 Ford Taurus with scuff transfer marks of the right side front bumper cover of the 2000 Honda Civic. The Green Arrow denotes the approximate contact area.



E) **Vehicle:** 2000 Honda Civic EX Operated by Edson Thevenin

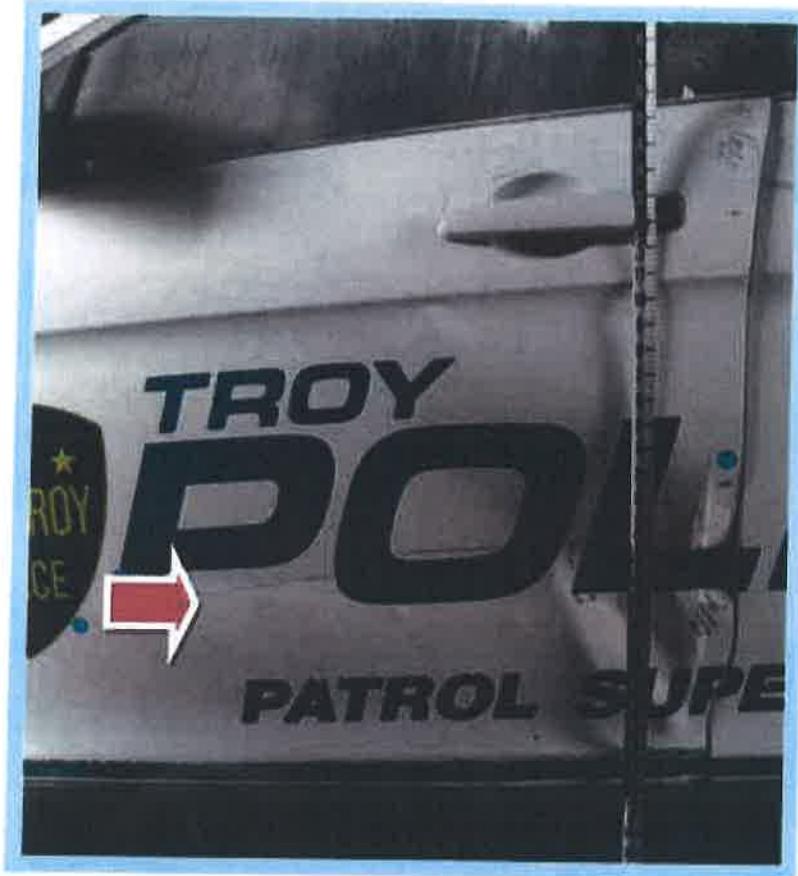
***Damage Location/Description:*** Right Front Fender (See Honda Civic Vehicle Damage Analysis No. 3, Page 36)

**Vehicle:** 2013 Ford Taurus Operated by Troy Police Sergeant Randall French

***Damage Location/Description:*** Left Front Door, Outer Panel (See Ford Taurus Vehicle Damage Analysis No. 1, Page 42)

**Conclusion:** The forensic analysis of the damage present at the left outer front door panel of the Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French; the forensic analysis of the damage present at the right front outer fender location of the 2000 Honda Civic EX operated by Edson Thevenin; and the forensic damage matchup thereof revealed contact damage consistent with a sideswipe event of the two motor vehicles; more specifically, that of the Ford Taurus left side/Honda Civic right side impact of the Ford Taurus operated at the faster rate of speed.

-- ***See Photographs, Following Pages --***



Images No. 41a & 41b These photographs depict the described damage present at the left front outer door panel of the 2013 Ford Taurus, and the right front outer fender panel of the 2008 Honda Civic. Note the matching scuffing transfer, as well as the height of the deformation damage resulting from forceful sliding impact. The Red Arrows denote the direction of the damage, with obvious increasing intrusion.





**Images No. 42a & 42b:** These photographs depict the forensic damage matching of the 2013 Ford Taurus left front door and 2000 Honda Accord right front fender. The Blue Arrows denote the matched contact areas of the two motor vehicles. The directional damage is consistent with the white Ford Taurus traveling at the faster rate of speed.





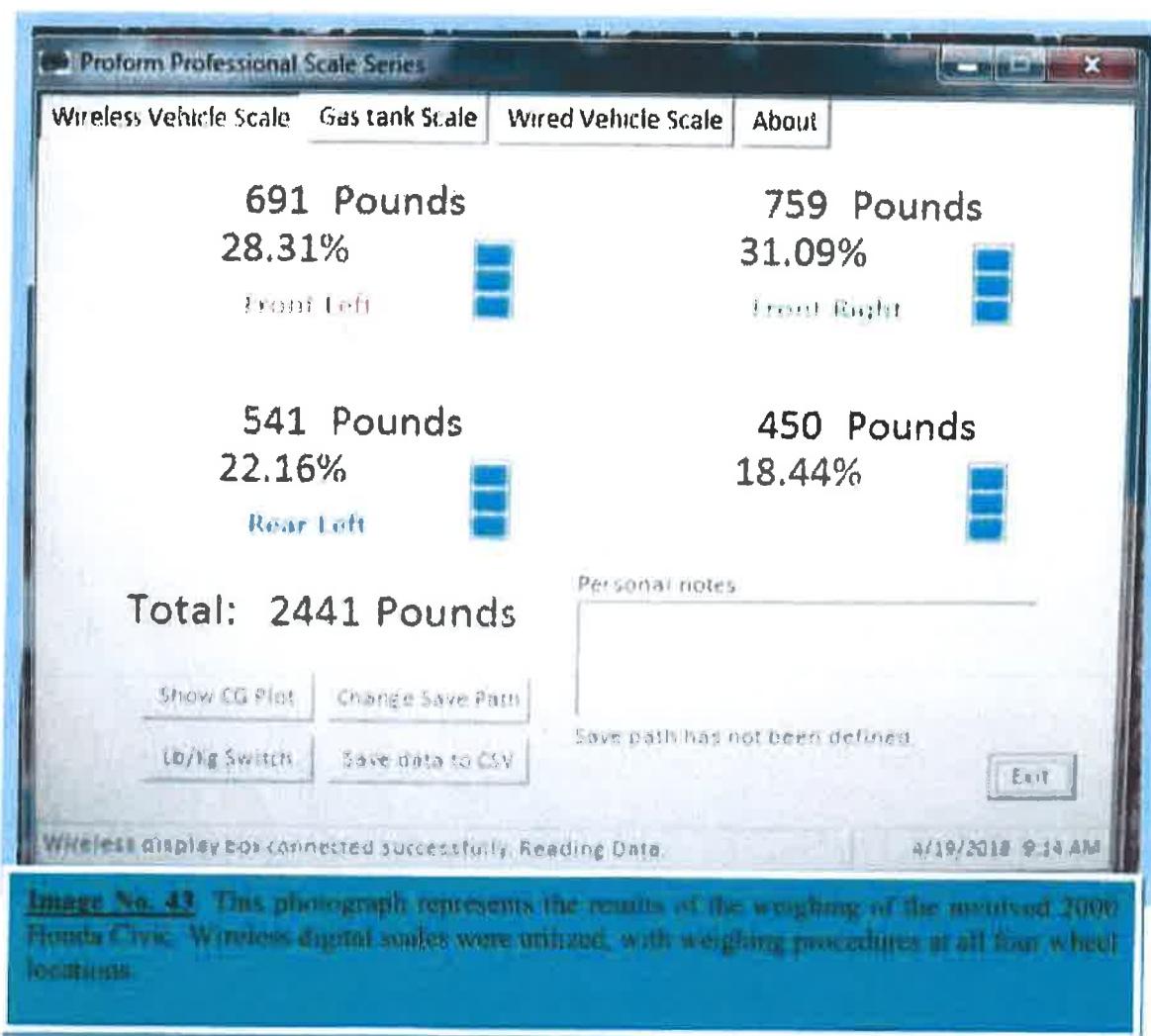
➤ Vehicle Weight Analysis

The forensic vehicle analysis of this matter was inclusive of the weighing of the two involved motor vehicles -- the 2000 Honda Civic operated by Edson Thevenin; as well as the 2013 Ford Taurus operated by Troy Police Sergeant Randall French. The results of the weighing procedures are as follows:

— 2000 Honda Civic

Weight, Total (without operator) = 2441 lbs.

Weight, At Front Right Tire Location (area of fender damage from sideswipe, without operator) = 759 lbs.





-- 2013 Ford Taurus

Weight, Total (without operator) = **3850 lbs.**



**Image No. 44** This photograph represents the results of the weighing of the involved 2013 Ford Taurus. Wireless digital scales were utilized, with weighing procedures at all four wheel locations.



### **METHODOLOGY/ANALYSIS OF DYNAMIC VEHICLE CONTACT**

The previously described forensic analyses of the physical evidence present on the left exterior body panels of the Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French, and on the right exterior body panels of the 2000 Honda Civic operated by Edson Thevenin, are clearly consistent with a sideswipe type of vehicular impact of the two motor vehicles, with the 2013 Ford Taurus traveling at a higher rate of speed during the encounter with the 2000 Honda Civic. Given that neither human statements nor roadway physical evidence provide succinct information as to 1) The exact turning radius of the two vehicles during the "U-Turn" maneuver from Hoosick Street to Alternate Route 7 (Collar City Bridge); 2) The exact location of the "U-Turn" maneuver in relation to the easterly end of the guardrail sections of Alternate Route 7 (Collar City Bridge); 3) The exact speed of the two involved vehicles; or 4) The exact location of contact between the two involved vehicles, the following potential scenarios will serve as discussion topics.

#### **Scenario No. 1**

*The 2000 Honda Civic operated by Edson Thevenin violently impacts the concrete barrier of Alternate Route 7 (Collar City Bridge), with the impact force projecting the left frontal area of the vehicle in a westerly direction along the concrete barrier. The 2000 Honda Civic realizes a clockwise rotation, and ultimately arrives at a stopped location on the roadway. The 2013 Ford Taurus operated by Troy Police Sergeant Randall French then arrives at the location and in doing so contacts the 2000 Honda Civic in a sideswipe manner -- left side of 2013 Ford Taurus to right side of 2000 Honda Civic -- before stopping.*

##### **✓ Facts for Consideration**

1) The post concrete barrier impact location of the 2000 Honda Civic on Alternate Route 7 (Collar City Bridge) was established from a) Roadway physical evidence; b) Concrete barrier physical evidence; and c) Physical dimensions of 2000 Honda Civic, inclusive of wheelbase and track width.

2) The location of the stopped Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French was established from a) Scene photographs; and b) Scene mapping conducted by Troy Police Department personnel.



- 3) The angle of final rest relationship of the 2000 Honda Civic and the 2013 Ford Taurus at the scene on Alternate Route 7 (Collar City Bridge) following concrete barrier impact by the 2000 Honda Civic would not have allowed a full sideswipe contact of the dynamic 2013 Ford Taurus upon arrival.
- 4) The trajectory of the right outside mirror of the 2000 Honda Civic, severed by the left exterior door handle of the faster moving 2013 Ford Taurus during sideswipe contact, would have been that of final rest of the mirror unit near the concrete barrier, and not within the westerly lane of travel.
- 5) The operator of a motor vehicle most typically does not merely elect to suddenly steer to the left and violently impact a concrete barrier for no reason.

✓ Conclusion, Scenario No. 1

This described scenario is unsupported by physical evidence, vehicular trajectory, and science.

Image No. 45 Based upon physical evidence and forensic scene mapping, this forensic animation still image represents the stopped locations of the involved 2000 Honda Civic and Tracy Police Department 2013 Ford Taurus following concrete barrier impact of the 2000 Honda Civic. Given the requisite approach angle of the 2013 Ford Taurus, sideswipe contact with the 2000 Honda Civic is not possible. Additionally, the photographically documented location of the severed right exterior mirror of the Honda (Red Arrow) would not be achievable, as the trajectory of the mirror would be in a direction towards the concrete barrier.





### Scenario No. 2

*The 2000 Honda Civic operated by Edson Thevenin violently impacts the concrete barrier of Alternate Route 7 (Collar City Bridge), with the impact force projecting the left frontal area of the vehicle in a westerly direction along the concrete barrier. The 2013 Ford Taurus operated by Troy Police Sergeant Randall French then arrives at the location and stops. As the 2000 Honda accelerates rearward, the right front corner of the vehicle impacts the opened left front door of the Troy Police Department 2013 Ford Taurus, resulting in significant door damage.*

#### ✓ Facts for Consideration

- 1) The above scenario has been offered by Craig Fries of Precision Simulations<sup>9</sup>. According to the provided Curriculum Vitae, Mr. Fries is neither a Crash Reconstruction Expert; a Vehicle Crash Damage Analysis Expert; an Automotive Technology Expert; nor a Vehicle Dynamics Expert. Indeed, Mr. Fries is offered as a 3D Forensic Scan Expert.
- 2) The referenced report of Mr. Fries does not reflect the clockwise rotation of the 2000 Honda Civic due to the violent impact with the concrete barrier, thus improperly representing the angle of the vehicle.



Image No. 46. This scene photograph depicts the scuff mark of the sideways sliding right front tire of the involved 2000 Honda Civic (Orange Arrow) resulting from forced westerly trajectory of the front of the vehicle along the concrete barrier due to the severity of the barrier impact. The Black Arrow designates the corresponding physical evidence of the left frontal area of the 2000 Honda Civic during impact trajectory in a westerly direction along the concrete barrier to ultimate swapped vehicle location.

The physical evidence provided the basis for the locations of the two involved vehicles as set forth by this report.

<sup>9</sup> See Expert Report of Craig Fries, Troy, SIP 16-003, Exhibit O & Page26.



- 3) The actual angle of the two stopped vehicles following concrete barrier impact and resulting clockwise rotation of the 2000 Honda Civic, derived from physical evidence and forensic scene mapping, would not have allowed for the impact as provided by the stills of Exhibit O of the Fries report.**
- 4) The report of Mr. Fries provides opinion defying science to the effect that the substantial damage to the outer door panel of the 2013 Ford Taurus was the result of the rearward movement of the 2000 Honda Civic, with the right front of the Honda impacting the opened Ford door. Had this occurred, the opened Ford Taurus door would have merely been slammed shut with minimal damage. The least path of resistance is that of closing the door, as opposed to the amount of energy required to result in the extent of damage sustained by the door skin high strength steel. (It is that of Conservation of Energy Principles.)**
- 5) The report of Mr. Fries does not account for the severing of the right exterior mirror of the 2000 Honda Civic and resulting final rest location of the component, nor the physical evidence of damage at the left outer front door handle of the 2013 Ford Taurus.**
- 6) The report of Mr. Fries does not account for the physical evidence of scuffing/transfer at the left rear exterior front door area of the involved 2013 Ford Taurus.**
- 7) The report of Mr. Fries does not account for the physical evidence of scuffing/transfer at the left rear door exterior area of the involved 2013 Ford Taurus, nor the abrasion wear of the right side molding of the 2000 Honda Civic.**
- 8) The report of Mr. Fries does not account for the physical evidence of scuffing/transfer at the left rear upper dog leg area of the involved 2013 Ford Taurus.**
- 9) The report of Mr. Fries does not account for the physical evidence of scuffing at the left rear lower front fender area of the involved 2013 Ford Taurus, nor the scuffing/transfer at the right side front bumper cover of the 2000 Honda Civic.**



10) The report of Mr. Fries erroneously concludes that Sergeant French could not open the driver door of the Ford Taurus due to the Honda presence, supported by Ford Taurus door damage. As previously cited the positioning of the vehicles, based upon physical evidence, would not have allowed for such close contact. Indeed, the left front door of the Ford Taurus proved difficult to open due to the exterior door handle and rear door damage at latch.

✓ Conclusion, Scenario No. 2

This described scenario is unsupported and contradicts physical evidence, vehicular trajectory, and science.

Scenario No. 3

*The Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French overtakes the fleeing 2000 Honda Civic operated by Edson Thevenin, with Honda operator Thevenin then initiating aggressive actions to purposely impact the Troy Police Department vehicle.*

✓ Facts for Consideration

1) Digital microscopic analyses of the damage sustained to the right side of the 2000 Honda Civic and the left side of the 2013 Ford Taurus reveal that the damage was caused by the faster moving Ford Taurus. Usual and customary aggressive actions are not that of the operator of the slower moving vehicle in such situations.

2) The final rest location of the severed right exterior mirror of the 2000 Honda Civic is that of the left, westerly lane of travel for Alternate Route 7 (Collar City Bridge). Had the 2000 Honda Civic operated by Edson Thevenin been the right swerve aggressor for the full sideswipe contact with the 2013 Ford Taurus, the trajectory of the detached mirror would result in final component rest location on the right side of the highway.

3) Had the 2000 Honda Civic operated by Edson Thevenin been the right swerve aggressor for the full sideswipe contact with the 2013 Ford Taurus, there would be no reason for



operator Thevenin to suddenly initiate a harsh left turn maneuver and violently impact the concrete barrier.

4) Had the 2000 Honda Civic operated by Edson Thevenin been the right swerve aggressor for the full sideswipe contact with the 2013 Ford Taurus, the violent event would have indeed proven emotionally stunning for Troy Police Sergeant Randall French, operating the 2013 Ford Taurus. However, there was no contemporaneous radio transmission by Sergeant French to that effect; nor have there been any subsequent statements by Sergeant French to that effect.

✓ Conclusion, Scenario No. 3

This described scenario is unsupported by physical evidence, vehicular trajectory, and human statements.

Scenario No. 4

*The Troy Police Department 2013 Ford Taurus operated by Troy Police Sergeant Randall French overtakes the fleeing 2000 Honda Civic operated by Edson Thevenin, with Ford Taurus operator Sergeant French then initiating aggressive actions to purposely impact the 2000 Honda Civic operated by Edson Thevenin.*

✓ Facts for Consideration

- 1) The above scenario is forensically scientific and consistent with the Vehicle Damage Analysis and Vehicle Damage Matchup as provided by previous sections of this expert report.
- 2) The kinetic energy of the 2013 Ford Taurus operated by Troy Police Sergeant Randall French significantly exceeded the kinetic energy of the 2000 Honda Civic operated by Edson Thevenin, with the weight of the Ford Taurus of 3850 lbs. (without operator) compared to the weight of the 2000 Honda Civic of 2441 lbs. (without operator).

— See Image, Following Page —



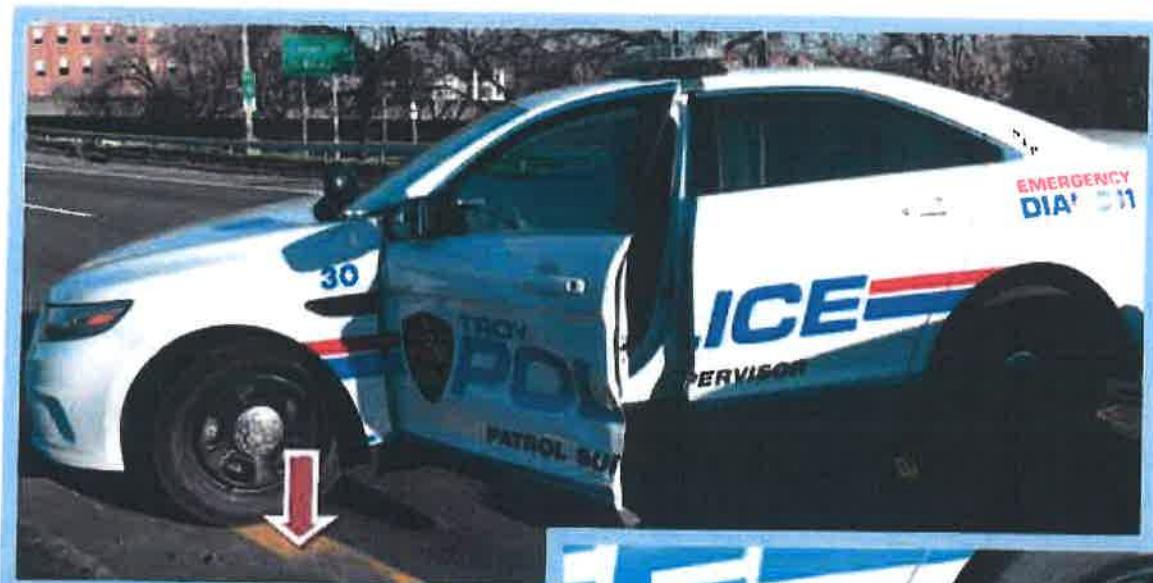
**Image No. 47.** This photograph, representing the sideswipe impact of the two involved vehicles in the approximate moment of Ford Taurus left from over Honda Civic right front fender contact damage matchup, depicts the comparison of the overall size of the 2013 Ford Taurus (left) and the 2000 Honda Civic (right). Digital scale weighing of the two vehicles revealed that the 2013 Ford Taurus weighed some 1409 lbs. more than the 2000 Honda Civic (without operators).

3) The proximity of the 2013 Ford Taurus and the 2000 Honda Civic at the concrete barrier location is consistent with Troy Police Sergeant French providing left turn steering input while operating the vehicle on the right side of the Honda Civic.



4) The sudden and significant left turn input by 2000 Honda Civic operator Edson Thevenin, which resulted in violent concrete barrier impact with no evidence of braking, is consistent with operator actions responding to the forceful left movement of the vehicle due to contact by a larger vehicle.

5) The final rest location of the right outside mirror of the 2000 Honda Civic, with physical evidence of forceful severing due to impact by the left front outside door handle of the faster moving 2013 Ford Taurus, is that of a trajectory consistent with the Honda Civic having been impacted in a full sideswipe maneuver as the Honda was operated in a westerly direction on Alternate Route 7 (Collar City Bridge).



Images No. 48a & 48b. These photographs, taken at the scene of the event of April 17, 2016 on Alternate Route 7 (Collar City Bridge) in Troy, New York, depict the final rest location of the severed right exterior mirror of the involved 2000 Honda Civic operated by Edson Thevenin. There was no evidence that the mirror had been impacted by a vehicle tire, thus consistent with the trajectory from impact by the left exterior door handle of the 2013 Ford Taurus.

The Red Arrow denotes the previously referenced Honda right front tire scuff mark.





✓ **Conclusion, Scenario No. 4**

This described scenario is consistent with, and supported by physical evidence, vehicular trajectory, and forensic science.



**Image No. 49** This 3D Forensic Stijl image, created by and through 1) Physical evidence, 2) Scene mapping data, 3) Vehicle turning radius data, 4) Vehicle dimensions, and 5) Forensic science, depicts a scientifically supported scenario with respect to the sideswipe collision of the 2013 Ford Taurus operated by Troy Police Sergeant Randall French and the 2008 Honda Civic operated by Edison Thevenin. The actual location of impact, vehicle turning radii, and u-turn locations cannot be succinctly established.

Note the trajectory of the right exterior mirror of the 2008 Honda from forceful separation of sideswipe contact to the known location of final rest.



### SUMMARY/OPINION/CONCLUSION

**The forensic vehicle autopsy procedures, vehicle damage forensic analyses, and related crash reconstruction analyses with respect to the events of April 17, 2016 at Alternate Route 7 (Collar City Bridge) in Troy, New York reveal the following conclusions.**

- 1) The forensic vehicle autopsy of the 2000 Honda Civic EX operated by Edson Thevenin revealed absolutely no motor vehicle mechanical, electrical, or computer control deficiencies existing prior to, or at the time of impact with the concrete barrier of Alternate Route 7 (Collar City Bridge) which would have contributed to the cause of the vehicle dynamics or impact. This forensic investigation and analysis divulged evidence of a vehicle which was, prior to crash damage resulting from the violent impact with the concrete barrier, unequivocally capable of proper operation, steering, and stopping maneuvers.
- 2) The post impact acceleration analysis of the 2000 Honda Civic operated by Edson Thevenin revealed that the vehicle was capable of forward and rearward movement under engine power. However, due to the substantially increased rolling resistance friction resulting from the significant front tire toe out condition sustained during concrete barrier impact, greatly increased accelerator input for such operation was required. Additionally, the front tire toe-out condition resulted in notably reduced turning radii of the vehicle.
- 3) Forensic analysis of scene physical evidence as well as the physical evidence of the 2013 Ford Taurus and 2000 Honda Civic revealed compelling substantiation of full, forceful vehicular sideswipe impact -- consistent with the 2013 Ford Taurus operated by Troy Police Sergeant French overtaking and impacting the 2000 Honda Civic operated by Edson Thevenin.

Signed:	<i>Brian F. Chase</i>	August 20, 2018
	Brian F. Chase, Chief Investigator	Date

ATTORNEYS' EYES ONLY

# Addendum A

**Vehicle Autopsy Inspection Report, 2000 Honda EX**

ATTORNEYS' EYES ONLY

**Comprehensive Motor Vehicle Services & Consulting**

18 Loudon Road #1688 ♦ Concord, NH 03302-1688

Phone: (603) 225-5662 ♦ Fax: (603) 226-4870 ♦ E-mail: VehicleAutopsy@aol.com

Brian F. Chase, Senior Investigator

www.VehicleAutopsy.com

**VEHICLE AUTOPSY® INSPECTION REPORT**Case # CMVSC-18-IA-245 Requesting Agency: Troy, New York Police DepartmentRequesting Agency Case #: BC38338Consent Form: N/ASearch Warrant: N/A Issuing Jurisdiction: N/A**CRASH/INCIDENT INFORMATION**Date: 4/17/2016 Time: 0330 Location: WB Lane of Collar City Bridge, Troy, NY Fatal: ✓Victim(s): Edson A. Thevenin (DOB 06/30/1978)**POST INSPECTION INFORMATION**Date: 4/18/2018 Time Started: 0900 Time Completed: 1830  
Date: 4/19/2018 Time Started: 0900 Time Completed: 1500Location of Inspection: Troy Police Department Garage, Troy, New YorkAssisted By: J.M. Chase (CMVSC)**VEHICLE INFORMATION**Owner: Cinthia Cyrille Address: 410 Vermont View Dr., Watervliet, NY 12189Operator: Edson A. Thevenin Address: 410 Vermont View 4-10, Watervliet, NY 12189Year: 2000 Make: Honda Model: Civic EXBody Style: 2 Door Coupe Color: BlackVIN: 1HGEJ8248YL105513 Reg.: FYZ9818 State: NY Mileage: 213722**PHOTOGRAPHS**Photos Taken: Canon EOS 6D Taken By: B. F. Chase

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

Case Number(s)	Investigator
CMVSC-18-VA-245	BRIAN F. CHASE

### INSPECTION STICKER INFORMATION

Sticker #: GN374926 State: NY Issue Date: UNK Expiration Date: 6/16/2017  
Reg #: FYZ9818 Station #: UNK Mechanic #: UNK  
Mileage at Inspection: UNK V.I.N.: 1HGEJ8248YL105513

### V.I.N. DEFINED

V.I.N.: 1HGEJ8248YL105513 Breakdown Attached: VinLink Report

### VEHICLE OPTIONS

Front Wheel Drive: ✓  
Rear Wheel Drive: N/A  
4 Wheel/All Drive: N/A  
Engine Displacement: L4; 1.6 L (1595 cc); VTEC; MFI; 123-127 HP  
Transmission Type: 4 Speed Automatic  
Shifter Location: Center Console Position @ Inspection: Neutral  
Shift Pattern: P-R-N-D4-D3-2 Cruise Control: ✓  
Drive: FWD Power Steering: ✓ Power Brakes: ✓  
Electric Door Locks: ✓ Electric Windows: ✓  
Windshield Wiper Type: Summer Number of Speeds: Variable Intermittent  
Windshield Wiper Position: On  
Headlamp Switch Position: Parking Lights  
Hi/Low Beam Dimmer Switch Position: Low  
Fan Blower Motor Speed: Full Fan Position of Switch: Defrost  
Temperature Control: Full Hot  
Air Direction Control Position: Defrost

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

Case Number(s)

CMVSC-18-VA-245

Investigator

BRIAN F. CHASE

**VEHICLE OPTIONS (Continued)**

Radio Equipped:  Activated: UNK

Speaker Fade: UNK Speaker Balance: UNK

Cassette or CD Player Equipped: \_\_\_\_\_ Activated: UNK

Volume Level: UNK

Air Bags: Equipped Deployed: No

Restraint System Type: Active Restraints

Front Seat Design: Bucket Head Rests: Left and Right\*

Rear Seat Design: Bench Head Rests: Incorporated

Front Seat Position: Right front seat forward

Interior Rearview Mirror:  Exterior Mirror(s): Left and Right\*\*

Equipped with Floor Mats:  Involvement: None

Equipped with Visors:  Position @ Inspection: Up

Horn Operation: Operational

**NOTES:** \* Left and right front seat headrests discovered in rear seat

\*\* Right outside mirror detached from vehicle.

Sunroof intact.

Blue Tooth Audio System (Model# MEX-N5000BT)

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

Case Number(s)	Investigator
CMVSC-18-VA-245	BRIAN F. CHASE

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**DAMAGE**

See companion report entitled Vehicle Autopsy Investigation Summary.

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

Case Number(s)	Investigator
CMVSC-18-VA-245	BRIAN F. CHASE

**TIRES**

**Right Front** Make: Venezia Crusade SXT Size: 195/55R15 85V  
 Design: M+S Load Rating: 515 kg (1135 lbs) Tread Depth: See page 7  
 DOT#: YCAC OPCR 2815 Maximum Pressure Rating: 300 kPa (44 psi)  
 Actual Pressure: 19.3 psi Original Tread Depth: 10/32"  
 UTQG Ratings: Treadwear: 500 Traction: A Temperature: A  
 Construction: Sidewall: 1 ply polyester Tread: 1 ply polyester, 2 plies steel, 1ply nylon  
 Rims: Velox Alloy # of Lug Nuts/Studs: 4

Week of Manufacture: 28<sup>th</sup> week of 2015 Location of Manufacturer: The Dayton Tire & Rubber Co.  
Albany, Georgia, USA

Damage: Unremarkable

**Left Front** Make: Venezia Crusade SXT Size: 195/55R15 85V  
 Design: M+S Load Rating: 515 kg (1135 lbs) Tread Depth: See page 7  
 DOT#: YCAC OPCR 2815 Maximum Pressure Rating: 300 kPa (44 psi)  
 Actual Pressure: 20.1 psi Original Tread Depth: 10/32"  
 UTQG Ratings: Treadwear: 500 Traction: A Temperature: A  
 Construction: Sidewall: 1 ply polyester Tread: 1 ply polyester, 2 plies steel, 1 ply nylon  
 Rims: Velox Alloy # of Lug Nuts/Studs: 4

Week of Manufacture: 28<sup>th</sup> week of 2015 Location of Manufacturer: The Dayton Tire & Rubber Co.  
Albany, Georgia, USA

Damage: Inner wheel damaged at outer bead area - 3 o'clock position (tire orientated with valve stem at the 12 o'clock position)). Outer wheel damaged at outer bead area (opposite inner damage). Tread scuffing from concrete barrier impact.

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

Case Number(s)	Investigator
CMVSC-18-VA-245	BRIAN F. CHASE

**TIRES (Continued)**

**Right Rear** Make: Venezia Crusade SXT Size: 195/55R15 85V  
 Design: M+S Load Rating: 515 kg (1135 lbs) Tread Depth: See page 7  
 DOT#: YCAC OPCR 2815 Maximum Pressure Rating: 300 kPa (44 psi)  
 Actual Pressure: 20.9 psi Original Tread Depth: 10/32 "  
 UTQG Ratings: Treadwear: 500 Traction: A Temperature: A  
 Construction: Sidewall: 1 ply polyester Tread: 1 ply polyester, 2 plies steel, 1 ply nylon  
 Rims: Velox Alloy # of Lug Nuts/Studs: 4

Week of Manufacture: 28<sup>th</sup> week of 2015 Location of Manufacturer: The Dayton Tire & Rubber Co.  
Albany, Georgia, USA

Damage: Unremarkable

**Left Rear** Make: Venezia Crusade SXT Size: 195/55R15 85V  
 Design: M+S Load Rating: 515 kg (1135 lbs) Tread Depth: See page 7  
 DOT#: YCAC OPCR 2915 Maximum Pressure Rating: 300 kPa (44 psi)  
 Actual Pressure: 21.1 Original Tread Depth: 10/32"  
 UTQG Ratings: Treadwear: 500 Traction: A Temperature: A  
 Construction: Sidewall: 1 ply polyester Tread: 1 ply polyester, 2 plies steel, 1 ply nylon  
 Rims: Velox Alloy # of Lug Nuts/Studs: 4

Week of Manufacture: 29<sup>th</sup> week of 2015 Location of Manufacturer: The Dayton Tire & Rubber Co.  
Albany, Georgia, USA

Damage: Unremarkable

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

<b>Case Number(s)</b>	<b>Investigator</b>
CMVSC-18-VA-245	BRIAN F. CHASE

**TIRES (Continued)**

**Left Front Tire**

Location	Tread Groove*			
12	8.375	9.25	9.25	8.75
3	9.25	9.25	9.25	9.00
6	8.75	9.50	8.75	8.50
9	8.75	9.75	9.50	9.00

**Right Front Tire**

Location	Tread Groove*			
12	9.50	9.50	9.25	9.50
3	9.50	9.75	9.75	9.50
6	9.25	9.25	9.25	9.50
9	9.50	9.25	9.50	9.25

**Left Rear Tire**

Location	Tread Groove*			
12	9.50	9.75	9.50	9.25
3	9.50	9.75	9.50	9.50
6	9.50	9.50	9.25	9.50
9	9.50	9.75	9.75	9.75

**Right Rear Tire**

Location	Tread Groove*			
12	9.50	9.50	9.00	9.25
3	9.25	9.50	9.50	9.50
6	9.25	9.25	9.50	9.50
9	0	0	0	0

\* Each tread groove is measured in  $32^{\text{nd}}$ s of an inch from outside tread groove to inside tread groove with valve stem at the 12 o'clock position.

**Tire Durometer Readings**

<b>Left Front</b>	75
<b>Right Front</b>	74
<b>Left Rear</b>	75
<b>Right Rear</b>	70

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CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT

Case Number(s)	Investigator
CMVSC-18-VA-245	BRIAN F. CHASE

### LAMPS

Headlamps: Switch Position @ Inspection: Park Type: Halogen  
Condition: Left impact damaged; Right intact

Tail lamps: Switch Position @ Inspection: Park Type: 7443  
Condition: See narrative

Brake Lamps: Type: 7443 Condition: See narrative

Auxiliary Lamps: Type: N/A Condition: N/A  
Switch Position @ Inspection: N/A

Circuit Testing Done: Rear Tail/Stop Lamp Circuits  
   
 

Lamps Removed For Examination: Rear Tail/Stop Lamp bulbs. See narrative.

### GLASS

Windshield: Type: Shaded/tinted Condition: Bullet holes

Left Front: Position: Up Condition: Intact

Right Front: Position: Up Condition: Intact

Left Rear: Type: Fixed Condition: Intact

Right Rear: Type: Fixed Condition: Intact

Rear Windshield: Type: OM/Defroster Condition: Intact

Aftermarket Window  
Tint: None

Tint Location: N/A % Light Transmittance: N/A

Notes:

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

Case Number(s)	Investigator
CMVSC-18-VA-245	BRIAN F. CHASE

### WIPERS

Front: Type: Summer Condition: Intact  
Rear: Type: N/A Condition: N/A

### SUSPENSION

Front: Type: Coil over struts Condition: See narrative  
Rear: Type: Coil over struts Condition: Unremarkable

Shock Absorber/Strut Condition:

LF No seepage RF No seepage LR No seepage\* RR No seepage\*

Wheel Bearing Condition:

LF NMP RF NMP LR NMP RR NMP

Ball Joint Condition:

Front:	Right Upper:	<u>NMP</u>	Right Lower:	<u>NMP</u>
	Left Upper:	<u>NMP</u>	Left Lower:	<u>NMP</u>
Rear	Right Upper:	<u>NMP</u>	Right Lower:	<u>NMP</u>
"Bushings"	Left Upper:	<u>NMP</u>	Left Lower:	<u>NMP</u>

Notes: \* Replacements

### STEERING

Tie Rods: Condition: Left Front deformation (crash related)

Modified Steering Wheel: No Steering Wheel Free Play: NMP: steering wheel deformation from impact

Engine Condition @ Inspection: Off

Fluid Level: Sufficient Fluid Condition: Unremarkable

Pump Condition: Intact; no seepage Belt Condition: Impact damage resulted in belt departure

Rack & Pinion: Intact; no leaks; NMP

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

Case Number(s)

**CMVSC-18-VA-245**

Investigator

**BRIAN F. CHASE**

### STEERING (continued)

Linkages Condition: NMP: bent tie rod at left front (crash related)

Full Motion Condition: Limited due to toe out condition from crash damage.

Notes:

### EXHAUST

Type: Aftermarket Modification: Skunk 2 Racing Mega Power exhaust system\*

Exhaust Leaks: None detected Hanger Condition: Unremarkable

Notes: \*PN: S2-415-99-1470-56974

### BRAKE SYSTEM

Reservoir

Type/Design: Plastic, dual circuit; power booster

Fluid Condition: Sufficient Fluid Level: Sufficient

Port Clogged: No ABS/Non-ABS: ABS

Brake Pedal Reserve: 7" Extended; 4.75" Depressed.

Brake Line Condition: Intact, no kinking or chafing

Emergency Brake Type: Hand activated/released Position @ Inspection: Released

Operation Condition: Operational

Rotational Resistance: LF - In/Pounds RF - In/Pounds  
LR - In/Pounds RR - In/Pounds

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

Case Number(s)

CMVSC-18-VA-245

Investigator

BRIAN F. CHASE

**BRAKE SYSTEM (continued)**

**Right Front**

Assembly Type: Single piston floating caliper

Rotor Thickness: 21.54 mm Minimum Limit: 19.00 mm

Lining Design: Bonded Condition: Unremarkable

Friction Material Thickness: Inside: 8.30 – 9.13 mm  
Outside: 8.59 – 9.23 mm

Brake Piston & Seal: No binding; no seepage; piston moves freely within bore

Wheel Cylinder Condition: N/A Self Adjuster Condition: N/A

Brake Dust Presence: None detected

Notes:

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**Left Front**

Assembly Type: Single piston floating caliper

Rotor Thickness: 21.03 mm Minimum Limit: 19.00 mm

Lining Design: Bonded Condition: Unremarkable

Friction Material Thickness: Inside: 8.25 – 9.43 mm  
Outside: 8.71 – 9.71 mm

Brake Piston & Seal: No binding; no seepage; piston moves freely within bore

Wheel Cylinder Condition: N/A Self Adjuster Condition: N/A

Brake Dust Presence: None detected

Notes:

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**CONTINUATION OF VEHICLE AUTOPSY INSPECTION REPORT**

Case Number(s)	Investigator
CMVSC-18-VA-245	BRIAN F. CHASE

### BRAKE SYSTEM (continued)

**Right Rear** Assembly Type: Anchor Pin Drum Assembly  
Drum Diameter: 199.52 mm Maximum Limit: 201 mm  
Lining Design: Bonded Condition: Unremarkable  
Friction Material Thickness: Primary: 4.34 – 5.46 mm  
Secondary: 5.48 – 5.69 mm  
Brake Piston & Seal: N/A  
Wheel Cylinder Condition: No seepage Self Adjuster Condition: Unremarkable  
Brake Dust Presence: Normal brake dust presence  
Notes:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Left Rear** Assembly Type: Anchor Pin Drum Assembly  
Drum Diameter: 199.94 mm Maximum Limit: 201 mm  
Lining Design: Bonded Condition: Unremarkable  
Friction Material Thickness: Primary: 3.85 – 5.11 mm  
Secondary: 4.54 – 5.75 mm  
Brake Piston & Seal: N/A  
Wheel Cylinder Condition: No seepage Self Adjuster Condition: Unremarkable  
Brake Dust Presence: Normal brake dust presence  
Notes:  
\_\_\_\_\_  
\_\_\_\_\_

ATTORNEYS' EYES ONLY

# Addendum B

**VinLink Report and Design Specifications,  
2000 Honda Civic**

ATTORNEYS' EYES ONLY

ATTORNEYS' EYES ONLY  
Scroll down for more content when viewing on computer monitor.



**Report type:  
BASIC**

**VIN: 1HGEJ8248YL105513**

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**ATTORNEYS' EYES ONLY**<http://www.vinlink.com/>Report type: **BASIC**

VIN: 1HGEJ8248YL105513

**VIN number: 1HGEJ8248YL105513****DECODED: Honda - Civic (2000)**

Model Year	2000
Make	Honda
Model	Civic
Trim Level	EX
Body Type	2 Door Coupe
Manufacturer	Honda of American Mfg. Inc.
Production Seq. Number	105513
Engine Type	L4, 1.6L (1595 cc); VTEC; MFI
Fuel Type	Gasoline
Horsepower	123-127HP
Engine Code	J8
Engine Series Code	D16Y8
Drive Line Type	FWD
Transmission	4 Speed Automatic
Vehicle Type	Passenger Car
Vehicle Class	Small Car
Country	UNITED STATES
Assy. Plant	East Liberty Ohio
GVWR Class	Class B: 3,001-4,000 lb
Check Digit	8
MPG	M5:22-29-25/A4:24-32-27/M5:25-32-28/M5:27-33-30
AAIA	14380/150158
AAIA ENGINE	5753
AAIA TRANSMISSION	1523/1640/1522/1540/2346
AAIA VehicleID	14380/14380
AAIA EngineConfigID	5753/5753
AAIA TransmissionID	1523/1523
AAIA BodyStyleConfigID	7/7
AAIA BrakeConfigID	8/9
AAIA DriveTypeID	5/5
AAIA SpringTypeConfigID	1/1

## Design Specifications

ITEM		METRIC	ENGLISH	NOTE
DIMENSIONS	Overall Length			
	2-door Coupe/4-door Sedan ('96 - '98)	4,445 mm	175.0 in	
	('99, '00)	4,450 mm	176.2 in	
	2-door Hatchback ('98, '97)	4,170 mm	164.2 in	
	('98 - 00)	4,180 mm	164.6 in	
	Overall width	1,705 mm	67.1 in	
	Overall height	1,375 mm	54.1 in	
	2-door Coupe/2-door Hatchback	1,380 mm	54.7 in	
	4-door Sedan	2,620 mm	103.1 in	
	Wheelbase	1,475/1,475 mm	58.1/58.1 in	
TRACK	Front/Rear	150 mm	6.9 in	
	Ground Clearance			
	Seating Capacity		Five	
WEIGHT (USA)	Gross Vehicle Weight Rating (GVWR)			
	2-door Coupe			
	HX M/T, DX M/T		3,290 lbs	
	HX CVT ('98)		3,320 lbs	
	HX CVT ('97, '98)		3,330 lbs	
	HX CVT ('99)		3,360 lbs	
	DX A/T ('96 - '98)		3,290 lbs	
	DX A/T ('99, '00)		3,310 lbs	
	EX		3,440 lbs	
	Si		3,480 lbs	
	2-door Hatchback			
	CX, DX ('96, '97)		3,285 lbs	
	CX, DX ('98)		3,290 lbs	
	CX ('99, '00)		3,290 lbs	
	DX M/T ('99, '00)		3,290 lbs	
	DX A/T ('99, '00)		3,330 lbs	
	4-door Sedan			
	DX, LX, DX-V		3,330 lbs	
	EX		3,460 lbs	
WEIGHT (CANADA)	Gross Vehicle Weight Rating (GVWR)			
	2-door Coupe			
	DX ('96)	1,500 kg		
	DX ('97 - 00)	1,510 kg		
	DX-G	1,510 kg		
	Si ('96)	1,580 kg		
	Si ('97 - 00)	1,570 kg		
	SIR	1,590 kg		
	2-door Hatchback			
	CX, CX-G ('96)	1,495 kg		
	CX, CX-G ('97)	1,505 kg		
	CX-G ('98)	1,610 kg		
	CX ('98 - 00)	1,510 kg		
	DX M/T, SE M/T	1,510 kg		
	4-door Sedan			
	DX A/T, SE A/T	1,530 kg		
	LX, LX-V	1,510 kg		
	EX M/T	1,510 kg		
	EX A/T	1,540 kg		
ENGINE	Type			
		Water-cooled, 4-stroke SOHC* <sup>1</sup> , SOHC VTEC* <sup>2</sup> , SOHC VTEC-E* <sup>3</sup> , DOHC VTEC* <sup>4</sup> gasoline engine		* <sup>1</sup> : D16Y7
	Cylinder Arrangement	Inline 4-cylinder, transverse		* <sup>2</sup> : D16Y8
	Bore and Stroke	75.0 x 90.0 mm	2.95 x 3.54 in	* <sup>3</sup> : D16Y5
		81.0 x 77.4 mm	3.19 x 3.05 in	* <sup>4</sup> : B16A2
	Displacement	1,590 cm <sup>3</sup>	97.0 cu-in	
		1,595 cm <sup>3</sup>	97.3 cu-in	
	Compression Ratio			
		9.4		
		9.8		
		10.2		
	Valve Train	Belt driven, 4 valve per cylinder		
Lubrication System		Forced and wet sump, trochoid pump		
	Oil Pump Displacement at 6,800 engine rpm			
		D16Y5, D16Y7, D16Y8	33.4 l (35.3 US qt, 29.4 Imp qt)/minute	
		B16A2	43.8 l (46.3 US qt, 38.6 Imp qt)/minute	
	Water Pump Displacement at 6,000 engine rpm			
		D16Y5, D16Y7, D16Y8	125 l (132 US qt, 110 Imp qt)/minute	
		B16A2	140 l (148 US qt, 123 Imp qt)/minute	
	Fuel Required			
		D16Y5, D16Y7, D16Y8	UNLEADED gasoline with 86 Pump Octane Number or higher	
		B16A2	Premium UNLEADED gasoline 91 Pump Octane Number or higher	
STARTER	Type/Make			
	Normal Output			
	Nominal Voltage			
	Hour Rating			
	Direction of Rotation			
		Gear reduction/MITSUBA		
		1.0 kW, 1.2 kW		
		12 V		
		30 seconds		
		Clockwise as viewed from gear end		

		ITEM	METRIC	ENGLISH	NOTES
STARTER (cont'd)	Weight	MITSUBA 1.0, 1.2 kW		3.4 kg	7.5 lbf
CLUTCH	Clutch Type	M/T A/T CVT	Single plate dry, diaphragm spring Torque converter Multi plates wet sump, hydraulic		
	Clutch Facing Area	M/T	160 cm <sup>2</sup>	26 sq-in	
TRANSMISSION	Transmission Type	M/T A/T CVT	Synchronized 5-speed forward, 1 reverse 4-speed automatic, 1 reverse Non-stage speed forward, 1 reverse		
	Primary Reduction		Direct 1 : 1		
	Manual transmission		Engine type		
	Gear Ratio	1st 2nd 3rd 4th 5th Reverse	D16Y5 3.250 1.782 1.172 0.909 0.702 3.153	D16Y7 3.250 1.782 1.172 0.909 0.702 3.153	D16Y8 3.250 2.105 1.458 1.107 0.875 3.000
	Final Reduction	Gear ratio Gear type	9.722 3.722* <sup>1/4.058**</sup>	4.250	4.266
			Single helical gear		
	Automatic transmission		Engine type		
	Gear Ratio	1st 2nd 3rd 4th Reverse	D16Y7 2.600 1.488 0.928 0.638 1.954	D16Y8 2.722 1.516 0.975 0.638 1.954	
	Final Reduction	Gear ratio Gear type	4.357	4.357	
			Single helical gear		
	CVT				
	Gear Ratio	Low ~ O.D. Reverse	2.468 - 0.449 2.466		
	Secondary Reduction Gear Ratio		1.333		
	Final Reduction Gear Ratio		4.357		
AIR CONDITIONING	Cooling Capacity		3,530 Kcal/h	14,000 BTU/h	
	Compressor	Type/Make No. of Cylinders Capacity Max. Speed Lubricant Capacity	Scroll/SANDEN 85.7 ml/rev 10,000 rpm 130 ml		
			5.22 cu-in/rev 4 1/3 fl oz, 4.6 Imp oz		SP-10
	Compressor	Type/Manufacturer No. of Cylinder Capacity Max. Speed Lubricant Capacity	Swash-plate/DENSO 155.3 ml/rev 76,000 rpm 140 ml		
		Lubricant Type	10 9.4 cu-in/rev 4 2/3 fl oz, 4.9 Imp oz		ND-OIL8
	Condenser	Type	Corrugated fin		
	Evaporator	Type	Corrugated fin		
	Blower	Type Motor Input Speed Control Max. Capacity	Sirocco fan 200 W/12 V 4-speed variable 460 m <sup>3</sup> /h		
	Temperature Control		16,200 cu-ft/h		
	Compressor Clutch	Type Power Consumption	Air-mix type Dry, single plate, poly-V-belt drive 40 W max./12 V at 68°F (20°C)		
	Refrigerant	Type Quantity	HFC-134a (R-134a) 650 <sup>0</sup> <sub>-50</sub> g		22.9 <sup>0</sup> <sub>-15</sub> oz

(cont'd)

# Design Specifications

(cont'd)

	ITEM	METRIC	ENGLISH	NOTE
STEERING SYSTEM	Type	P/S M/S	Power assisted, rack and pinion Rack and pinion	
	Overall Ratio	P/S M/S	17.7 20.3	
	Turns, Lock-to-Lock	P/S M/S	3.6 4.1	
	Steering Wheel Dia.		380 mm 15.0 in	
SUSPENSION	Type	Front and Rear Front and Rear	Independent double wishbone, coil spring Telescopic, hydraulic nitrogen gas-filled	
WHEEL ALIGNMENT	Camber	Front Rear	0°00' - 1°	
	Caster	Front Front Rear	1°40'	
	Total Toe	Front Rear	In 1 mm In 2 mm	In 1/16 In 1/16
BRAKE SYSTEM	Type	Front Rear	Power assisted self-adjusting ventilated disc Power assisted self-adjusting solid disc Power assisted self-adjusting drum	
	Pad Surface Area	Front	37.5 cm <sup>2</sup> x 4 44.1 cm <sup>2</sup> x 4	5.8 sq-in x 4 6.84 sq-in x 4
		Rear	67.2 cm <sup>2</sup> x 4 21.2 cm <sup>2</sup> x 4	10.4 sq-in x 4 3.3 sq-in x 4
	Parking Brake	Type	Mechanical actuating, rear two wheel brakes	5410 stamped on the caliper body 2056 stamped on the caliper body Drum Disc
TIRE	Size and Pressure		See tire information label	
WASHER	Capacity	2-door Coupe/4-door Sedan	2.5 l (2.6 US qt, 2.2 Imp qt) 4.5 l (4.8 US qt, 4.0 Imp qt)	USA model Canada model
		2-door Hatchback	2.5 l (2.6 US qt, 2.2 Imp qt) 4.5 l (4.8 US qt, 4.0 Imp qt)	DX Except DX
ELECTRICAL	Battery Starter Alternator Fuses Headlights Front Turn Signal/Parking Lights Rear Turn Signal Lights Brake/Taillights Inner Taillights* <sup>2</sup> High Mount Brake Light Back-up Lights License Plate Lights Ceiling Light Trunk Lights Gauge Lights Indicator Lights Illumination and Pilot Lights Heater Control Panel Lights	In Under-dash Fuse/Relay Box In Under-hood Fuse/Relay Box In Under-hood ABS Fuse/Relay Box	12 V - 38 AH/5 HR 12 V - 1.0 kW, 1.2 kW 12 V - 75 A, 80 A 7.5 A, 10 A, 15 A, 20 A 7.5 A, 10 A, 15 A, 20 A, 30 A, 40 A, 80 A 7.5 A, 20 A, 40 A 12 V - 80/55 W 12 V - 21/6 W 12 V - 21 W 12 V - 21/6 W 12 V - 5 W 12 V - 18 W* <sup>2</sup> , 21 W* <sup>1</sup> , * <sup>3</sup> 12 V - 21 W 12 V - 5 W 12 V - 8 W (With moonroof) 12 V - 5 W (Without moonroof) 12 V - 3.4 W* <sup>4</sup> , 5 W* <sup>5</sup> 12 V - 1.4 W, 3 W 12 V - 1.12 W, 1.4 W 12 V - 0.84 W, 1.4 W 12 V - 1.4 W	

P/S: Power Steering M/S: Manual Steering

\*1: 2-door Coupe \*2: 2-door Hatchback \*3: 4-door Sedan

\*4: USA (HAM), Canada (HCM) produced \*5: Japan produced

ATTORNEYS' EYES ONLY

# Addendum C

**3D Forensic Still Images**

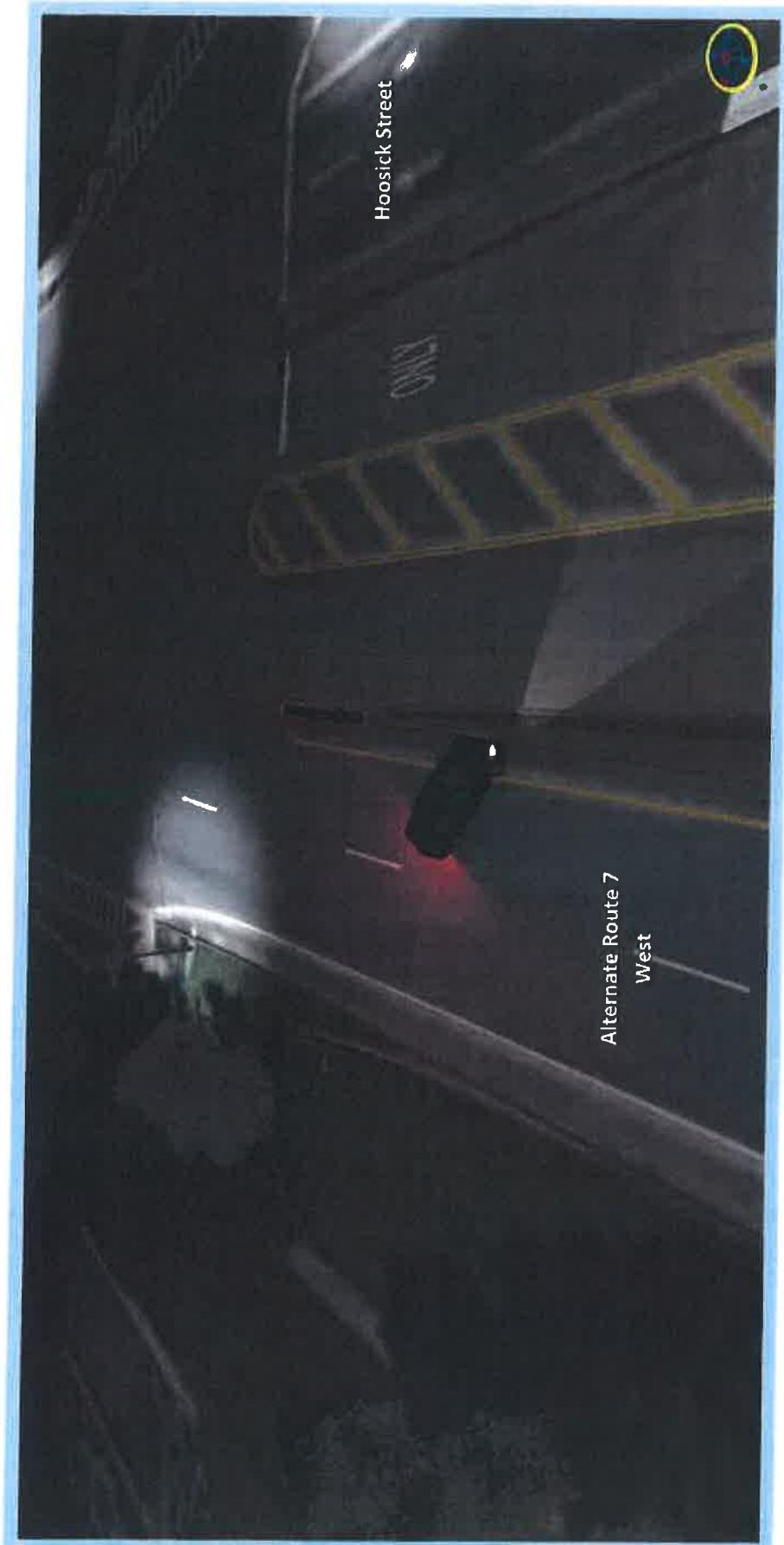
ATTORNEYS' EYES ONLY

*In the Matter of the Death of Edson Thevenin*

Case Reference No. BC 38338, Troy (N.Y.) Police Department

CMVSC-18-IA-245

ATTORNEYS' EYES ONLY



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3D Forensic Still Image No. 4, Report Page 7.

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CMVSC-18-IA-245

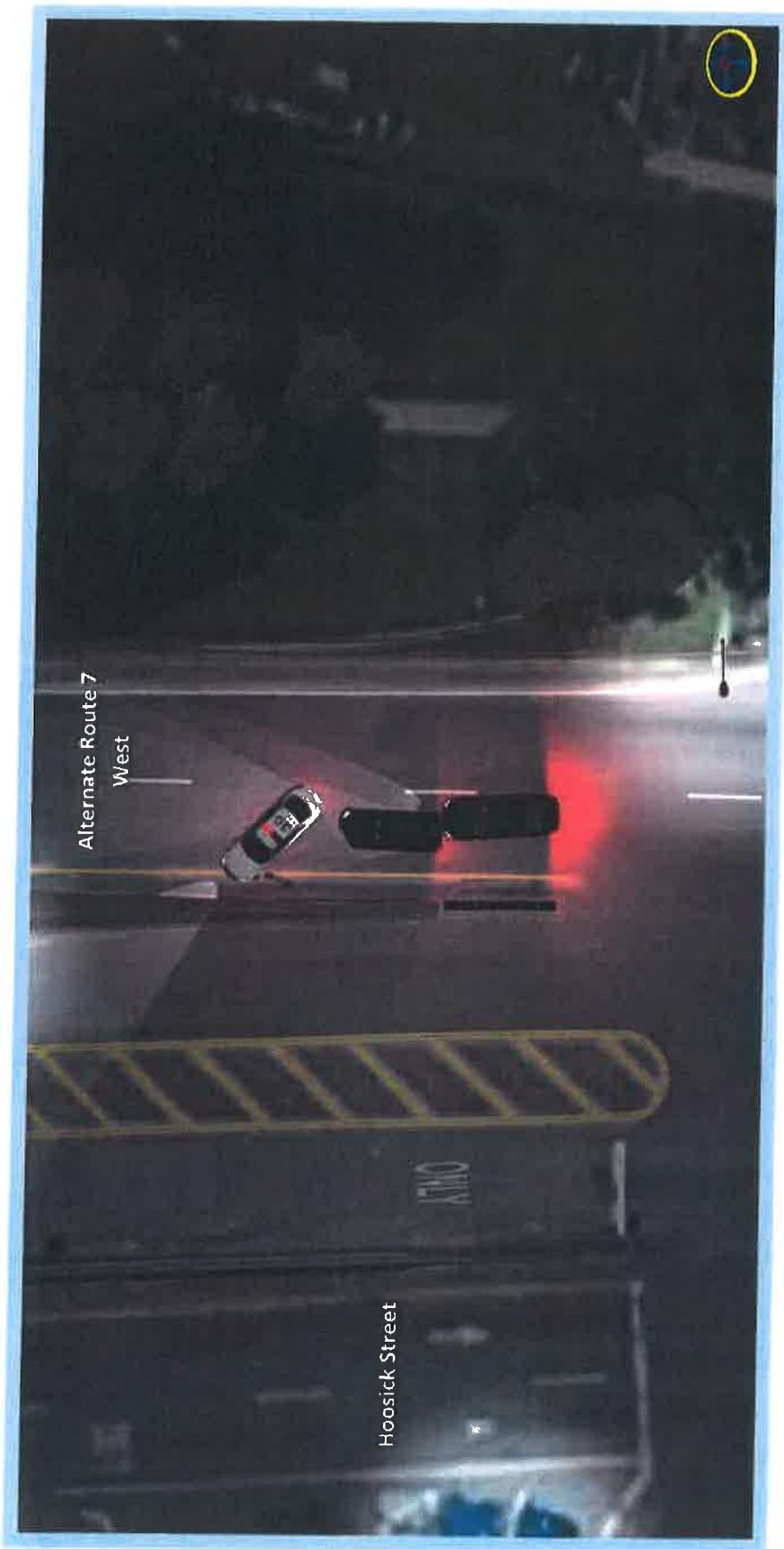
ATTORNEYS' EYES ONLY



3D Forensic Still Image No. 5, Report Page 8.

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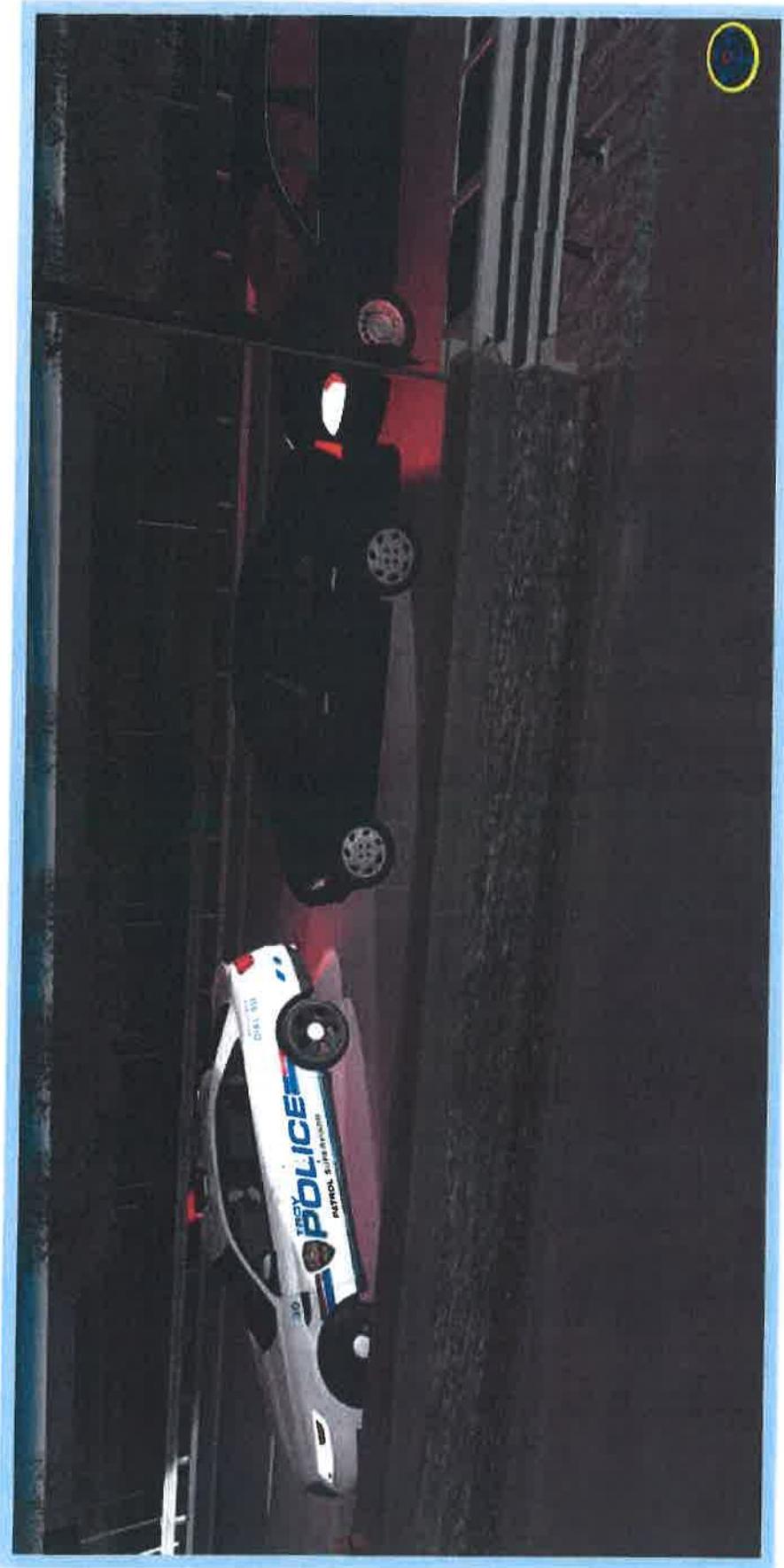
3D Forensic Still Image No. 6a, Report Page 9.

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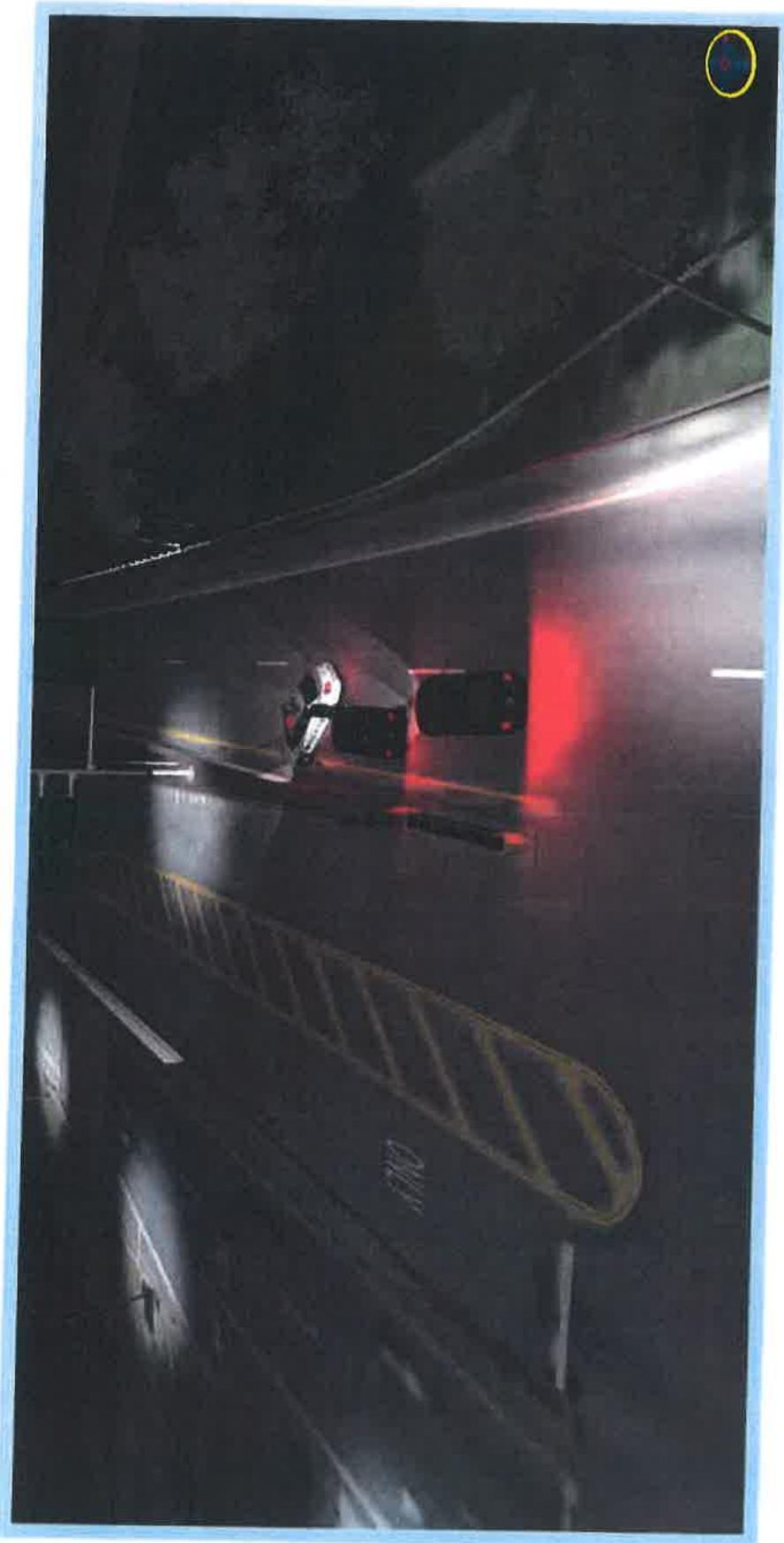


3D Forensic Still Image No. 6b, Report Page 10.

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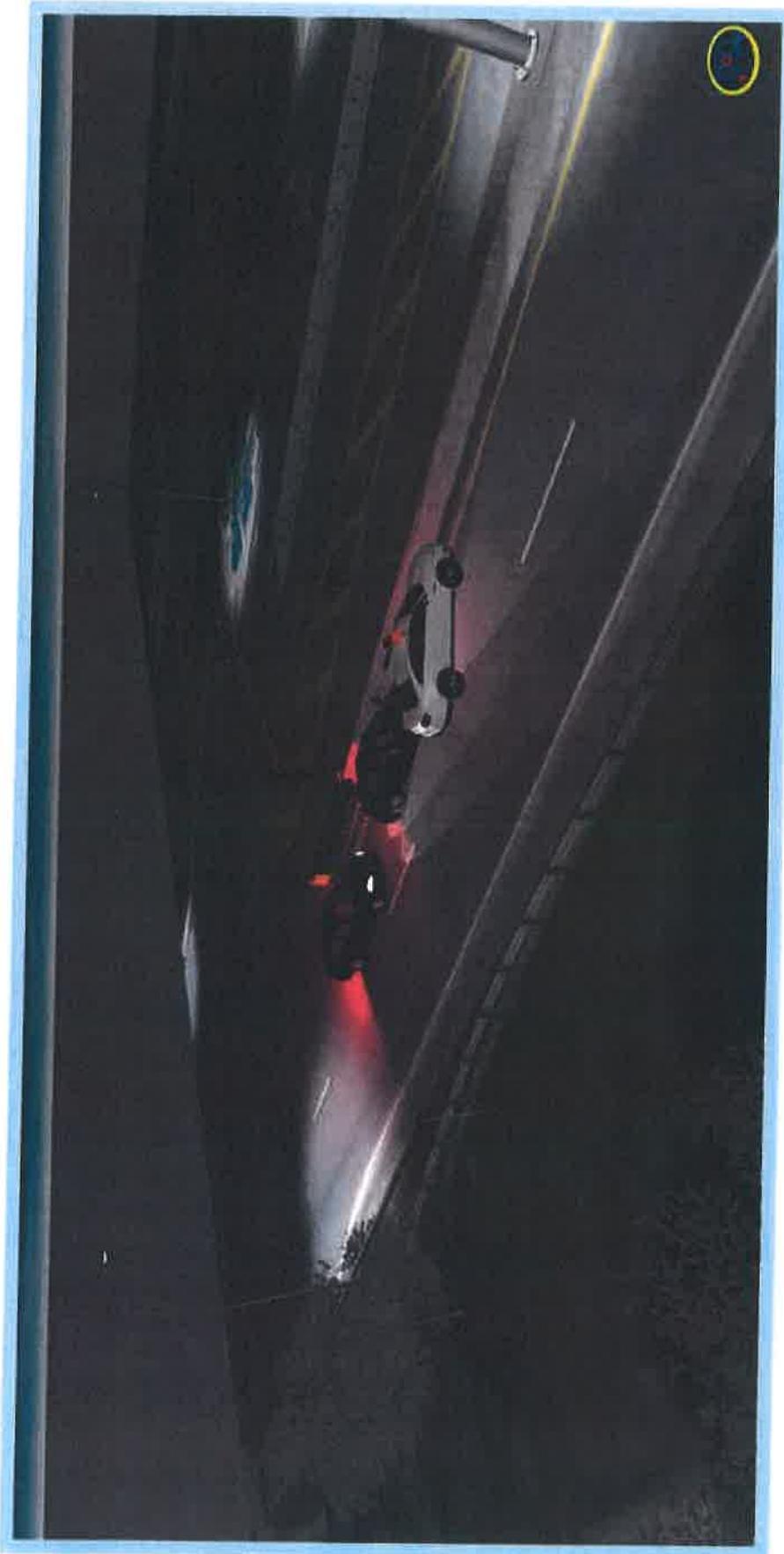


3D Forensic Still Image No. 7a, Report Page 11.

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3D Forensic Still Image 7b, Report Page 12.

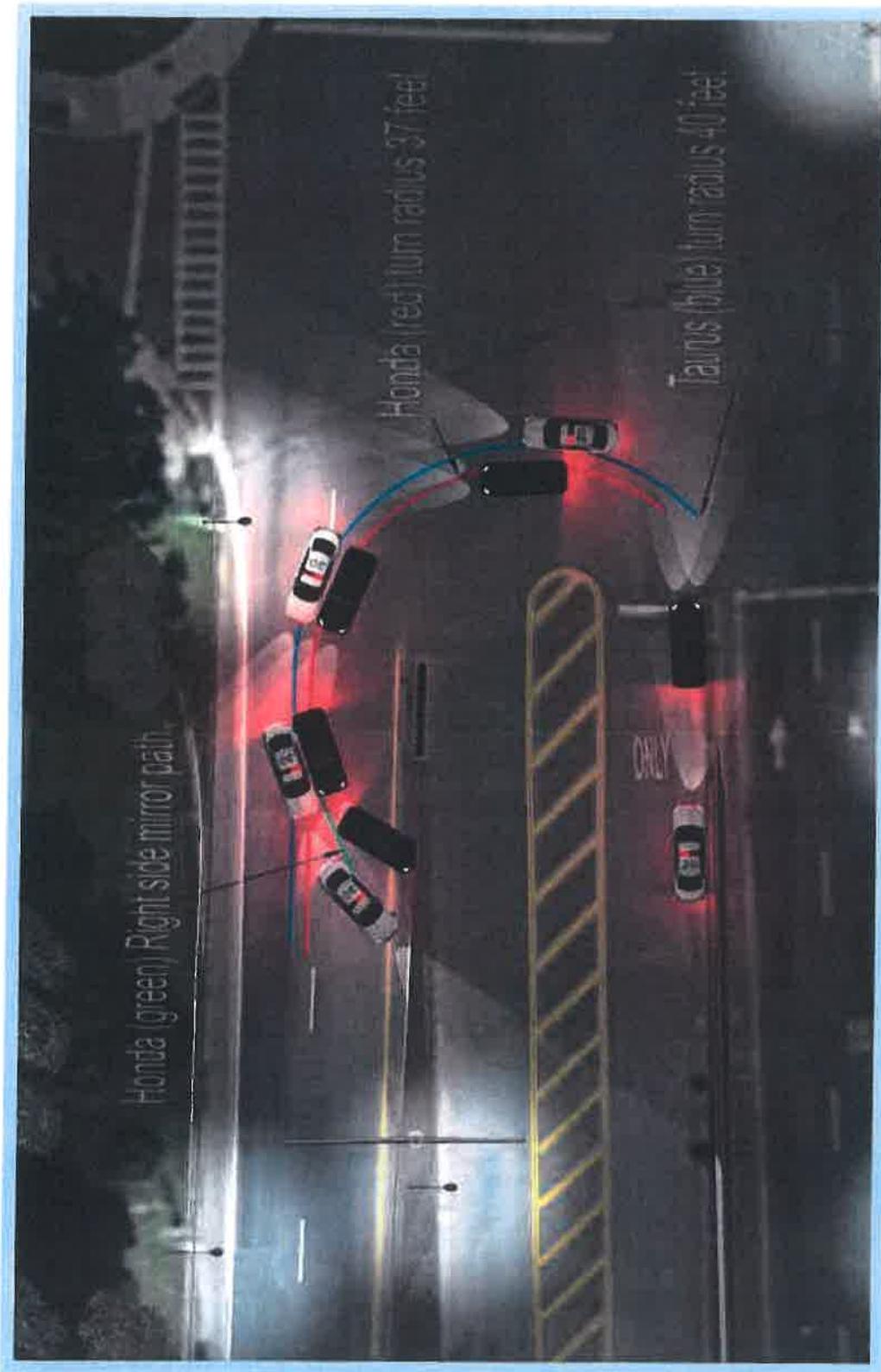
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3D Forensic Still Image No. 49, Report Page 67.

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